FIGURE 1

Amino acid sequence for full-length human wild type Cathepsin S [SEQ. ID No. 1]

Residues comprising the catalytic domain (114-331) are underlined

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MKRLVCVLLV CSSAVAQLHK DPTLDHHWHL WKKTYGKQYK EKNEEAVRRL IWEKNLKFVM    60
LHNLEHSMGM HSYDLGMNHL GDMTSEEVMS LMSSLRVPSQ WQRNITYKSN PNRILPDSVD   120
WREKGCVTEV KYQGSCGACW AFSAVGALEA QLKLKTGKLV SLSAQNLVDC STEKYGNKGC   180
NGGFMTTAFQ YIIDNKGIDS DASYPYKAMD LKCQYDSKYR AATCSKYTEL PYGREDVLKE   240
AVANKGPVSV GVDARHPSFF LYRSGVYYEP SCTQNVNHGV LVVGYGDLNG KEYWLVKNSW   300
GHNFGEEGYI RMARNKGNHC GIASFPSYPE I                                  331
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cDNA sequence for residues 141-331 of SEQ. ID No. 1 [SEQ. ID No. 2]

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ATGAAACGGC TGGTTTGTGT GCTCTTGGTG TGCTCCTCTG CAGTGGCACA GTTGCATAAA    60
GATCCTACCC TGGATCACCA CTGGCATCTC TGGAAGAAAA CCTATGGCAA ACAATACAAG   120
GAAAAGAATG AAGAAGCAGT ACGACGTCTC ATCTGGGAAA AGAATCTAAA GTTTGTGATG   180
CTTCACAACC TGGAGCATTC AATGGGAATG CACTCATACG ATCTGGGCAT GAACCACCTG   240
GGAGACATGA CCAGTGAAGA AGTGATGTCT TTGATGAGTT CCCTGAGAGT TCCCAGCCAG   300
TGGCAGAGAA ATATCACATA TAAGTCAAAC CCTAATCGGA TATTGCCTGA TTCTGTGGAC   360
TGGAGAGAGA AAGGGTGTGT TACTGAAGTG AAATATCAAG GTTCTTGTGG TGCTTGCTGG   420
GCTTTCAGTG CTGTGGGGGC CCTGGAAGCA CAGCTGAAGC TGAAAACAGG AAAGCTGGTG   480
TCTCTCAGTG CCCAGAACCT GGTGGATTGC TCAACTGAAA AATATGGAAA CAAAGGCTGC   540
AATGGTGGCT TCATGACAAC GGCTTTCCAG TACATCATTG ATAACAAGGG CATCGACTCA   600
GACGCTTCCT ATCCCTACAA AGCCATGGAT CTGAAATGTC AATATGACTC AAAATATCGT   660
GCTGCCACAT GTTCAAAGTA CACTGAACTT CCTTATGGCA GAGAAGATGT CCTGAAAGAA   720
GCTGTGGCCA ATAAAGGCCC AGTGTCTGTT GGTGTAGATG CGCGTCATCC TTCTTTCTTC   780
CTCTACAGAA GTGGTGTCTA CTATGAACCA TCCTGTACTC AGAATGTGAA TCATGGTGTA   840
CTTGTGGTTG GCTATGGTGA TCTTAATGGG AAAGAATACT GGCTTGTGAA AAACAGCTGG   900
GGCCACAACT TTGGTGAAGA AGGATATATT CGGATGGCAA GAAATAAAGG AAATCATTGT   960
GGGATTGCTA GCTTTCCCTC TTACCCAGAA ATCTAG                              996
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FIGURE 3

LEGEND

Column headings from left to right are (A)'Atom Number', (B)'Atom Type', (C)'Amino Acid', (D)'Chain Identifier', (E)'Amino Acid Number', (F)'X Coordinate', (G)'Y Coordinate', (H)'Z Coordinate', (I)'Occupancy' (OCC) and (J)'B factor'.

A	B	C	D	E	F	G	H	I	J
1	N	ILE	A	1	82.257	8.041	57.927	1.00	26.34
3	CA	ILE	A	1	82.504	8.282	59.377	1.00	25.81
5	CB	ILE	A	1	83.574	7.303	59.879	1.00	26.29
7	CG1	ILE	A	1	82.988	5.880	59.789	1.00	26.70
10	CD1	ILE	A	1	83.604	4.861	60.736	1.00	27.27
14	CG2	ILE	A	1	83.987	7.615	61.297	1.00	26.81
18	C	ILE	A	1	82.828	9.757	59.616	1.00	24.58
19	O	ILE	A	1	83.919	10.241	59.292	1.00	26.19
23	N	LEU	A	2	81.813	10.485	60.080	1.00	22.05
25	CA	LEU	A	2	81.954	11.891	60.442	1.00	20.00
27	CB	LEU	A	2	80.605	12.453	60.868	1.00	19.56
30	CG	LEU	A	2	79.501	12.355	59.825	1.00	20.01
32	CD1	LEU	A	2	78.222	12.934	60.367	1.00	21.60
36	CD2	LEU	A	2	79.905	13.043	58.524	1.00	19.14
40	C	LEU	A	2	82.941	12.101	61.574	1.00	18.72
41	O	LEU	A	2	83.100	11.254	62.440	1.00	18.37
42	N	PRO	A	3	83.604	13.243	61.569	1.00	17.60
43	CA	PRO	A	3	84.507	13.570	62.672	1.00	16.62
45	CB	PRO	A	3	85.045	14.949	62.305	1.00	17.14
48	CG	PRO	A	3	84.686	15.200	60.909	1.00	18.97
51	CD	PRO	A	3	83.548	14.300	60.560	1.00	17.68
54	C	PRO	A	3	83.723	13.654	63.967	1.00	15.96
55	O	PRO	A	3	82.565	14.052	63.934	1.00	15.78
56	N	ASP	A	4	84.338	13.302	65.087	1.00	15.34
58	CA	ASP	A	4	83.677	13.369	66.383	1.00	15.46
60	CB	ASP	A	4	84.503	12.677	67.469	1.00	16.27
63	CG	ASP	A	4	84.314	11.162	67.480	1.00	20.81
64	OD1	ASP	A	4	83.374	10.648	66.823	1.00	22.78
65	OD2	ASP	A	4	85.068	10.405	68.142	1.00	24.08
66	C	ASP	A	4	83.471	14.813	66.780	1.00	14.04
67	O	ASP	A	4	82.593	15.116	67.564	1.00	14.43
68	N	SER	A	5	84.298	15.690	66.241	1.00	13.06
70	CA	SER	A	5	84.165	17.107	66.525	1.00	13.20
72	CB	SER	A	5	84.951	17.460	67.785	1.00	13.87
75	OG	SER	A	5	86.328	17.434	67.527	1.00	15.53
77	C	SER	A	5	84.589	17.965	65.344	1.00	12.32
78	O	SER	A	5	85.435	17.579	64.535	1.00	12.78
79	N	VAL	A	6	83.964	19.130	65.229	1.00	11.07
81	CA	VAL	A	6	84.253	20.077	64.179	1.00	11.25
83	CB	VAL	A	6	83.156	20.009	63.094	1.00	11.71
85	CG1	VAL	A	6	83.239	21.160	62.144	1.00	12.21
89	CG2	VAL	A	6	83.218	18.674	62.379	1.00	12.06

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
93	C	VAL	A	6	84.244	21.476	64.765	1.00	10.82
94	O	VAL	A	6	83.468	21.747	65.667	1.00	10.70
95	N	ASP	A	7	85.092	22.360	64.250	1.00	11.43
97	CA	ASP	A	7	85.069	23.775	64.647	1.00	11.57
99	CB	ASP	A	7	85.927	24.038	65.878	1.00	11.62
102	CG	ASP	A	7	85.834	25.469	66.382	1.00	14.15
103	OD1	ASP	A	7	85.435	26.374	65.617	1.00	12.41
104	OD2	ASP	A	7	86.154	25.766	67.577	1.00	15.00
105	C	ASP	A	7	85.549	24.564	63.457	1.00	11.35
106	O	ASP	A	7	86.731	24.639	63.171	1.00	11.67
107	N	TRP	A	8	84.613	25.145	62.709	1.00	10.50
109	CA	TRP	A	8	84.938	25.857	61.503	1.00	10.47
111	CB	TRP	A	8	83.641	26.205	60.743	1.00	10.56
114	CG	TRP	A	8	83.120	25.010	59.975	1.00	10.28
115	CD1	TRP	A	8	82.073	24.218	60.294	1.00	10.49
117	NE1	TRP	A	8	81.956	23.200	59.372	1.00	9.78
119	CE2	TRP	A	8	82.932	23.340	58.429	1.00	10.67
120	CD2	TRP	A	8	83.696	24.459	58.788	1.00	11.28
121	CE3	TRP	A	8	84.759	24.830	57.964	1.00	13.13
123	CZ3	TRP	A	8	85.050	24.042	56.844	1.00	13.88
125	CH2	TRP	A	8	84.283	22.941	56.529	1.00	14.28
127	CZ2	TRP	A	8	83.215	22.571	57.301	1.00	14.21
129	C	TRP	A	8	85.809	27.075	61.704	1.00	10.85
130	O	TRP	A	8	86.371	27.596	60.745	1.00	11.66
131	N	ARG	A	9	85.899	27.550	62.949	1.00	11.57
133	CA	ARG	A	9	86.787	28.663	63.251	1.00	13.62
135	CB	ARG	A	9	86.643	29.102	64.687	1.00	13.51
138	CG	ARG	A	9	85.293	29.655	65.033	1.00	13.24
141	CD	ARG	A	9	85.175	30.056	66.498	1.00	13.68
144	NE	ARG	A	9	85.318	28.897	67.360	1.00	13.08
146	CZ	ARG	A	9	85.231	28.912	68.670	1.00	13.37
147	NH1	ARG	A	9	85.011	30.041	69.314	1.00	15.01
150	NH2	ARG	A	9	85.385	27.792	69.342	1.00	14.86
153	C	ARG	A	9	88.213	28.246	63.012	1.00	14.93
154	O	ARG	A	9	89.034	29.059	62.580	1.00	16.62
155	N	GLU	A	10	88.502	26.968	63.234	1.00	15.84
157	CA	GLU	A	10	89.850	26.418	63.048	1.00	17.63
159	CB	GLU	A	10	89.923	25.022	63.663	1.00	18.54
162	CG	GLU	A	10	89.627	25.009	65.152	1.00	22.00
165	CD	GLU	A	10	89.773	23.625	65.771	1.00	25.95
166	OE1	GLU	A	10	89.739	22.619	65.021	1.00	28.16
167	OE2	GLU	A	10	89.899	23.555	67.013	1.00	29.66
168	C	GLU	A	10	90.271	26.371	61.576	1.00	17.42
169	O	GLU	A	10	91.457	26.221	61.266	1.00	19.10
170	N	LYS	A	11	89.341	26.675	60.680	1.00	17.42
172	CA	LYS	A	11	89.519	26.539	59.243	1.00	17.25
174	CB	LYS	A	11	88.484	25.622	58.578	1.00	18.47
177	CG	LYS	A	11	88.472	24.203	59.091	1.00	21.87
180	CD	LYS	A	11	89.629	23.388	58.551	1.00	25.43
183	CE	LYS	A	11	90.038	22.289	59.530	1.00	27.42
186	NZ	LYS	A	11	91.186	21.494	59.043	1.00	29.82

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
190	C	LYS	A	11	89.436	27.953	58.666	1.00	16.53
191	O	LYS	A	11	89.478	28.143	57.461	1.00	16.98
192	N	GLY	A	12	89.295	28.949	59.537	1.00	15.66
194	CA	GLY	A	12	89.219	30.327	59.127	1.00	15.31
197	C	GLY	A	12	87.980	30.655	58.319	1.00	14.80
198	O	GLY	A	12	88.021	31.534	57.457	1.00	15.59
199	N	CYS	A	13	86.876	29.975	58.626	1.00	13.63
201	CA	CYS	A	13	85.658	30.135	57.830	1.00	12.55
203	CB	CYS	A	13	85.092	28.769	57.471	1.00	13.05
206	SG	CYS	A	13	86.053	27.854	56.234	1.00	15.75
207	C	CYS	A	13	84.592	30.927	58.568	1.00	12.31
208	O	CYS	A	13	83.460	31.041	58.086	1.00	11.54
209	N	VAL	A	13	84.954	31.478	59.721	1.00	10.44
211	CA	VAL	A	14	84.022	32.223	60.562	1.00	9.80
213	CB	VAL	A	14	83.761	31.473	61.864	1.00	9.69
215	CG1	VAL	A	14	82.724	32.200	62.693	1.00	10.02
219	CG2	VAL	A	14	83.311	30.024	61.590	1.00	11.13
223	C	VAL	A	14	84.535	33.629	60.871	1.00	9.61
224	O	VAL	A	14	85.649	33.799	61.374	1.00	11.18
225	N	THR	A	15	83.720	34.635	60.596	1.00	9.79
227	CA	THR	A	15	84.104	36.013	60.862	1.00	10.47
229	CB	THR	A	15	83.296	36.995	60.013	1.00	11.70
231	OG1	THR	A	15	81.906	36.874	60.346	1.00	12.19
233	CG2	THR	A	15	83.410	36.669	58.567	1.00	11.82
237	C	THR	A	15	83.929	36.357	62.324	1.00	11.20
238	O	THR	A	15	83.417	35.566	63.109	1.00	10.87
239	N	ALA	A	16	84.208	37.610	62.637	1.00	12.52
241	CA	ALA	A	16	84.188	38.078	64.011	1.00	12.09
243	CB	ALA	A	16	84.730	39.470	64.105	1.00	13.84
247	C	ALA	A	16	82.733	38.075	64.423	1.00	11.36
248	O	ALA	A	16	81.842	38.261	63.598	1.00	10.77
249	N	VAL	A	17	82.502	37.860	65.706	1.00	10.58
251	CA	VAL	A	17	81.177	37.921	66.268	1.00	10.11
253	CB	VAL	A	17	81.222	37.468	67.730	1.00	10.38
255	CG1	VAL	A	17	79.950	37.835	68.464	1.00	11.56
259	CG2	VAL	A	17	81.488	35.989	67.780	1.00	11.48
263	C	VAL	A	17	80.680	39.347	66.131	1.00	10.10
264	O	VAL	A	17	81.414	40.297	66.382	1.00	11.71
265	N	LYS	A	18	79.421	39.489	65.747	1.00	8.56
267	CA	LYS	A	18	78.792	40.761	65.539	1.00	9.55
269	CB	LYS	A	18	77.986	40.755	64.237	1.00	10.39
272	CG	LYS	A	18	78.766	40.394	62.990	1.00	10.71
275	CD	LYS	A	18	80.056	41.159	62.846	1.00	10.83
278	CE	LYS	A	18	80.725	40.971	61.474	1.00	12.15
281	NZ	LYS	A	18	81.129	39.568	61.143	1.00	12.51
285	C	LYS	A	18	77.842	41.082	66.692	1.00	9.43
286	O	LYS	A	18	77.494	40.224	67.484	1.00	9.72
287	N	TYR	A	19	77.424	42.346	66.754	1.00	10.36
289	CA	TYR	A	19	76.531	42.802	67.812	1.00	10.98
291	CB	TYR	A	19	77.250	43.834	68.694	1.00	11.20
294	CG	TYR	A	19	76.391	44.406	69.803	1.00	13.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
295	CD1	TYR	A	19	75.859	45.676	69.695	1.00	16.23
297	CE1	TYR	A	19	75.087	46.210	70.700	1.00	16.53
299	CZ	TYR	A	19	74.821	45.481	71.814	1.00	19.68
301	CE2	TYR	A	19	75.338	44.222	71.958	1.00	19.55
303	CD2	TYR	A	19	76.124	43.683	70.945	1.00	16.47
305	C	TYR	A	19	75.308	43.407	67.155	1.00	10.43
306	O	TYR	A	19	75.395	44.464	66.506	1.00	11.82
307	N	GLN	A	20	74.166	42.761	67.336	1.00	9.89
309	CA	GLN	A	20	72.943	43.194	66.646	1.00	10.10
311	CB	GLN	A	20	71.945	42.044	66.498	1.00	10.63
314	CG	GLN	A	20	71.296	41.576	67.730	1.00	11.13
317	CD	GLN	A	20	70.402	40.388	67.480	1.00	12.73
318	OE1	GLN	A	20	70.875	39.244	67.381	1.00	12.94
319	NE2	GLN	A	20	69.109	40.633	67.395	1.00	13.57
322	C	GLN	A	20	72.280	44.376	67.310	1.00	11.11
323	O	GLN	A	20	71.514	45.087	66.684	1.00	11.05
324	N	GLY	A	21	72.605	44.624	68.563	1.00	11.36
326	CA	GLY	A	21	71.950	45.707	69.287	1.00	12.15
329	C	GLY	A	21	70.454	45.508	69.458	1.00	12.43
330	O	GLY	A	21	69.955	44.383	69.498	1.00	12.85
331	N	SER	A	22	69.688	46.606	69.468	1.00	13.09
333	CA	SER	A	22	68.251	46.505	69.693	1.00	14.69
335	CB	SER	A	22	67.754	47.740	70.441	1.00	14.53
338	OG	SER	A	22	68.301	47.790	71.722	1.00	16.94
340	C	SER	A	22	67.463	46.374	68.410	1.00	15.57
341	O	SER	A	22	66.468	47.041	68.222	1.00	19.41
342	N	CYS	A	23	67.963	45.589	67.480	1.00	15.80
344	CA	CYS	A	23	67.330	45.386	66.197	1.00	15.60
346	CB	CYS	A	23	68.238	45.961	65.104	1.00	15.66
349	SG	CYS	A	23	67.819	45.633	63.382	1.00	17.03
350	C	CYS	A	24	67.229	43.875	66.055	1.00	15.55
351	O	CYS	A	24	68.251	43.209	66.183	1.00	17.33
352	N	GLY	A	24	66.042	43.352	65.754	1.00	14.59
354	CA	GLY	A	24	65.822	41.914	65.616	1.00	14.25
357	C	GLY	A	24	66.312	41.400	64.277	1.00	13.64
358	O	GLY	A	24	65.538	40.922	63.446	1.00	14.90
359	N	ALA	A	25	67.609	41.536	64.056	1.00	12.48
361	CA	ALA	A	25	68.219	41.150	62.789	1.00	12.26
363	CB	ALA	A	25	69.141	42.264	62.322	1.00	12.36
367	C	ALA	A	25	69.008	39.855	62.876	1.00	12.16
368	O	ALA	A	25	69.858	39.580	62.038	1.00	11.56
369	N	CYS	A	26	68.722	39.059	63.902	1.00	12.16
371	CA	CYS	A	26	69.397	37.778	64.097	1.00	12.81
373	CB	CYS	A	26	68.784	37.016	65.280	1.00	13.57
376	SG	CYS	A	26	67.082	36.526	65.019	1.00	16.39
377	C	CYS	A	26	69.366	36.937	62.821	1.00	10.60
378	O	CYS	A	26	70.360	36.311	62.475	1.00	10.27
379	N	TRP	A	26	68.236	36.942	62.141	1.00	9.62
381	CA	TRP	A	27	68.044	36.178	60.924	1.00	9.30
383	CB	TRP	A	27	66.628	36.374	60.377	1.00	9.21
386	CG	TRP	A	27	66.280	37.802	60.086	1.00	9.70

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
387	CD1	TRP	A	27	65.877	38.728	60.989	1.00	10.89
389	NE1	TRP	A	27	65.640	39.931	60.374	1.00	9.72
391	CE2	TRP	A	27	65.898	39.795	59.037	1.00	8.87
392	CD2	TRP	A	27	66.315	38.457	58.832	1.00	8.08
393	CE3	TRP	A	27	66.641	38.054	57.534	1.00	8.37
395	CZ3	TRP	A	27	66.517	38.963	56.511	1.00	9.65
397	CH2	TRP	A	27	66.129	40.292	56.759	1.00	9.26
399	CZ2	TRP	A	27	65.813	40.717	58.012	1.00	10.67
401	C	TRP	A	27	69.071	36.588	59.880	1.00	8.89
402	O	TRP	A	27	69.601	35.740	59.140	1.00	8.97
403	N	ALA	A	28	69.370	37.878	59.822	1.00	7.92
405	CA	ALA	A	28	70.296	38.408	58.825	1.00	7.88
407	CB	ALA	A	28	70.158	39.926	58.661	1.00	8.39
411	C	ALA	A	28	71.715	38.023	59.179	1.00	8.24
412	O	ALA	A	28	72.492	37.658	58.320	1.00	8.11
413	N	PHE	A	29	72.067	38.103	60.457	1.00	8.15
415	CA	PHE	A	29	73.381	37.681	60.872	1.00	7.56
417	CB	PHE	A	29	73.631	38.067	62.339	1.00	8.09
420	CG	PHE	A	29	73.899	39.523	62.518	1.00	8.52
421	CD1	PHE	A	29	72.937	40.367	63.030	1.00	10.35
423	CE1	PHE	A	29	73.180	41.738	63.140	1.00	11.21
425	CZ	PHE	A	29	74.371	42.246	62.710	1.00	9.28
427	CE2	PHE	A	29	75.306	41.431	62.157	1.00	10.01
429	CD2	PHE	A	29	75.080	40.063	62.073	1.00	9.08
431	C	PHE	A	29	73.593	36.210	60.653	1.00	7.36
432	O	PHE	A	29	74.683	35.803	60.279	1.00	8.40
433	N	SER	A	30	72.580	35.420	60.943	1.00	7.43
435	CA	SER	A	30	72.669	33.984	60.763	1.00	7.87
437	CB	SER	A	30	71.398	33.332	61.233	1.00	8.44
440	OG	SER	A	30	71.436	31.948	60.941	1.00	8.69
442	C	SER	A	30	72.912	33.665	59.298	1.00	7.91
443	O	SER	A	30	73.800	32.889	58.957	1.00	8.20
444	N	ALA	A	31	72.146	34.329	58.451	1.00	7.85
446	CA	ALA	A	31	72.237	34.117	57.019	1.00	8.22
448	CB	ALA	A	31	71.085	34.839	56.311	1.00	8.26
452	C	ALA	A	31	73.589	34.575	56.463	1.00	8.69
453	O	ALA	A	32	74.192	33.862	55.671	1.00	9.42
454	N	VAL	A	32	74.076	35.733	56.872	1.00	8.72
456	CA	VAL	A	32	75.353	36.156	56.337	1.00	9.28
458	CB	VAL	A	32	75.675	37.659	56.586	1.00	10.50
460	CG1	VAL	A	32	74.561	38.564	56.090	1.00	12.29
464	CG2	VAL	A	32	75.949	37.927	57.999	1.00	11.66
468	C	VAL	A	32	76.495	35.265	56.851	1.00	8.52
469	O	VAL	A	32	77.453	35.022	56.130	1.00	8.68
470	N	GLY	A	33	76.392	34.776	58.081	1.00	7.85
472	CA	GLY	A	33	77.411	33.915	58.637	1.00	8.13
475	C	GLY	A	33	77.594	32.644	57.842	1.00	7.86
476	O	GLY	A	33	78.710	32.184	57.563	1.00	8.58
477	N	ALA	A	34	76.459	32.052	57.473	1.00	8.26
479	CA	ALA	A	34	76.472	30.838	56.676	1.00	7.48
481	CB	ALA	A	34	75.083	30.353	56.481	1.00	8.24

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
485	C	ALA	A	34	77.140	31.109	55.327	1.00	7.77
486	O	ALA	A	34	77.918	30.301	54.834	1.00	8.24
487	N	LEU	A	35	76.760	32.199	54.691	1.00	8.26
489	CA	LEU	A	35	77.293	32.512	53.368	1.00	8.98
491	CB	LEU	A	35	76.477	33.606	52.715	1.00	8.91
494	CG	LEU	A	35	76.747	33.828	51.232	1.00	9.66
496	CD1	LEU	A	35	76.569	32.534	50.402	1.00	11.47
500	CD2	LEU	A	35	75.805	34.866	50.766	1.00	10.37
504	C	LEU	A	35	78.775	32.854	53.399	1.00	9.66
505	O	LEU	A	35	79.520	32.473	52.508	1.00	9.96
506	N	GLU	A	36	79.196	33.541	54.449	1.00	10.00
508	CA	GLU	A	36	80.610	33.894	54.609	1.00	9.89
510	CB	GLU	A	36	80.819	34.665	55.932	1.00	11.60
513	CG	GLU	A	36	80.206	36.067	55.965	1.00	12.79
516	CD	GLU	A	36	79.998	36.642	57.364	1.00	13.45
517	OE1	GLU	A	36	80.230	35.978	58.420	1.00	12.49
518	OE2	GLU	A	36	79.582	37.809	57.412	1.00	12.98
519	C	GLU	A	36	81.480	32.656	54.596	1.00	9.61
520	O	GLU	A	36	82.558	32.670	54.017	1.00	9.71
521	N	ALA	A	37	81.038	31.587	55.244	1.00	8.84
523	CA	ALA	A	37	81.845	30.370	55.281	1.00	9.23
525	CB	ALA	A	37	81.211	29.352	56.209	1.00	10.31
529	C	ALA	A	37	81.983	29.793	53.867	1.00	9.85
530	O	ALA	A	37	83.065	29.383	53.428	1.00	9.44
531	N	GLN	A	38	80.873	29.755	53.157	1.00	9.66
533	CA	GLN	A	38	80.890	29.248	51.782	1.00	9.39
535	CB	GLN	A	38	79.470	29.164	51.208	1.00	9.32
538	CG	GLN	A	38	78.580	28.228	51.991	1.00	9.58
541	CD	GLN	A	38	79.117	26.831	52.046	1.00	11.36
542	OE1	GLN	A	38	79.515	26.281	51.017	1.00	12.35
543	NE2	GLN	A	38	79.139	26.241	53.236	1.00	10.20
546	C	GLN	A	38	81.771	30.106	50.894	1.00	9.59
547	O	GLN	A	38	82.479	29.590	50.042	1.00	11.42
548	N	LEU	A	39	81.775	31.419	51.119	1.00	9.82
550	CA	LEU	A	39	82.615	32.322	50.339	1.00	9.67
552	CB	LEU	A	39	82.276	33.763	50.674	1.00	10.76
555	CG	LEU	A	39	83.111	34.826	49.966	1.00	11.15
557	CD1	LEU	A	39	82.834	34.877	48.468	1.00	11.91
561	CD2	LEU	A	39	82.855	36.147	50.574	1.00	11.50
565	C	LEU	A	39	84.100	32.040	50.561	1.00	11.18
566	O	LEU	A	39	84.885	31.977	49.625	1.00	11.71
567	N	LYS	A	40	84.441	31.605	51.746	1.00	11.49
569	CA	LYS	A	40	85.829	31.444	52.132	1.00	13.02
571	CB	LYS	A	40	86.033	31.581	53.645	1.00	12.61
574	CG	LYS	A	40	87.223	30.839	54.231	1.00	16.62
577	CD	LYS	A	40	88.538	31.446	53.870	1.00	20.40
580	CE	LYS	A	40	89.690	30.651	54.503	1.00	21.72
583	NZ	LYS	A	40	89.233	29.337	55.032	1.00	28.53
587	C	LYS	A	40	86.212	30.075	51.551	1.00	13.24
588	O	LYS	A	40	87.289	29.917	50.943	1.00	13.01
589	N	LEU	A	41	85.299	29.109	51.631	1.00	13.53

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
591	CA	LEU	A	41	85.536	27.782	51.067	1.00	14.77
593	CB	LEU	A	41	84.395	26.815	51.416	1.00	14.64
596	CG	LEU	A	41	84.314	26.365	52.866	1.00	15.86
598	CD1	LEU	A	41	82.988	25.629	53.172	1.00	16.87
602	CD2	LEU	A	41	85.491	25.488	53.224	1.00	17.83
606	C	LEU	A	41	85.735	27.863	49.545	1.00	15.17
607	O	LEU	A	41	86.608	27.188	48.979	1.00	15.80
608	N	ALA	A	42	85.046	28.787	48.903	1.00	15.49
610	CA	ALA	A	42	85.019	28.884	47.458	1.00	16.60
612	CB	ALA	A	42	83.687	29.459	46.969	1.00	17.33
616	C	ALA	A	42	86.175	29.755	46.972	1.00	17.55
617	O	ALA	A	42	86.818	29.432	45.963	1.00	18.46
618	N	THR	A	43	86.453	30.857	47.662	1.00	16.62
620	CA	THR	A	43	87.441	31.818	47.169	1.00	16.41
622	CB	THR	A	43	86.828	33.206	47.115	1.00	16.85
624	OG1	THR	A	43	86.616	33.713	48.449	1.00	15.15
626	CG2	THR	A	43	85.483	33.160	46.458	1.00	17.28
630	C	THR	A	43	88.706	31.932	47.972	1.00	16.79
631	O	THR	A	43	89.679	32.553	47.515	1.00	16.90
632	N	GLY	A	44	88.691	31.393	49.180	1.00	15.71
634	CA	GLY	A	44	89.829	31.470	50.071	1.00	15.97
637	C	GLY	A	44	89.844	32.748	50.891	1.00	15.78
638	O	GLY	A	44	90.720	32.925	51.750	1.00	18.08
639	N	LYS	A	45	88.888	33.641	50.638	1.00	14.70
641	CA	LYS	A	45	88.828	34.921	51.327	1.00	14.35
643	CB	LYS	A	45	88.524	36.037	50.348	1.00	14.89
646	CG	LYS	A	45	89.588	36.220	49.276	1.00	16.99
649	CD	LYS	A	45	89.353	37.471	48.497	1.00	19.33
652	CE	LYS	A	45	90.447	37.641	47.446	1.00	22.13
655	NZ	LYS	A	45	90.294	38.951	46.812	1.00	22.04
659	C	LYS	A	45	87.745	34.931	52.384	1.00	13.26
660	O	LYS	A	45	86.606	34.562	52.100	1.00	13.74
661	N	LEU	A	46	88.102	35.362	53.587	1.00	11.64
663	CA	LEU	A	46	87.154	35.533	54.676	1.00	11.56
665	CB	LEU	A	46	87.771	35.156	56.019	1.00	11.55
668	CG	LEU	A	46	86.766	35.211	57.164	1.00	13.05
670	CD1	LEU	A	46	85.653	34.215	56.915	1.00	12.63
674	CD2	LEU	A	46	87.433	34.929	58.475	1.00	14.82
678	C	LEU	A	46	86.733	37.001	54.691	1.00	11.68
679	O	LEU	A	46	87.519	37.888	55.018	1.00	12.55
680	N	VAL	A	47	85.456	37.244	54.400	1.00	11.66
682	CA	VAL	A	47	84.917	38.581	54.298	1.00	11.70
684	CB	VAL	A	47	84.663	38.947	52.801	1.00	12.60
686	CG1	VAL	A	47	84.118	40.336	52.678	1.00	14.24
690	CG2	VAL	A	47	85.935	38.776	51.975	1.00	14.03
694	C	VAL	A	47	83.574	38.659	55.015	1.00	11.12
695	O	VAL	A	47	82.702	37.851	54.741	1.00	12.16
696	N	SER	A	48	83.388	39.618	55.907	1.00	9.97
698	CA	SER	A	48	82.093	39.805	56.538	1.00	9.81
700	CB	SER	A	48	82.204	40.749	57.712	1.00	9.87
703	OG	SER	A	48	82.806	40.089	58.826	1.00	11.68

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
705	C	SER	A	48	81.147	40.402	55.517	1.00	9.76
706	O	SER	A	48	81.479	41.378	54.837	1.00	10.20
707	N	LEU	A	49	79.972	39.800	55.414	1.00	9.28
709	CA	LEU	A	49	78.947	40.236	54.473	1.00	8.88
711	CB	LEU	A	49	78.297	39.049	53.793	1.00	9.29
714	CG	LEU	A	49	79.318	38.188	53.066	1.00	9.50
716	CD1	LEU	A	49	78.677	36.909	52.544	1.00	9.17
720	CD2	LEU	A	49	79.989	38.963	51.949	1.00	10.72
724	C	LEU	A	49	77.931	41.100	55.204	1.00	9.30
725	O	LEU	A	49	77.824	41.062	56.426	1.00	9.63
726	N	SER	A	50	77.166	41.855	54.443	1.00	8.22
728	CA	SER	A	50	76.319	42.877	55.009	1.00	8.41
730	CB	SER	A	50	76.102	43.979	53.981	1.00	7.71
733	OG	SER	A	50	75.262	44.969	54.515	1.00	8.95
735	C	SER	A	50	74.948	42.411	55.513	1.00	8.25
736	O	SER	A	50	74.035	42.196	54.732	1.00	7.24
737	N	ALA	A	51	74.807	42.244	56.822	1.00	8.23
739	CA	ALA	A	51	73.530	41.981	57.437	1.00	8.22
741	CB	ALA	A	51	73.686	41.778	58.914	1.00	9.58
745	C	ALA	A	51	72.585	43.155	57.170	1.00	8.52
746	O	ALA	A	51	71.398	42.973	57.015	1.00	8.76
747	N	GLN	A	52	73.122	44.364	57.108	1.00	8.59
749	CA	GLN	A	52	72.297	45.543	56.887	1.00	8.33
751	CB	GLN	A	52	73.113	46.841	57.004	1.00	8.51
754	CG	GLN	A	52	72.217	48.056	57.014	1.00	9.63
757	CD	GLN	A	52	71.387	48.139	58.270	1.00	11.05
758	OE1	GLN	A	52	71.911	48.022	59.376	1.00	11.76
759	NE2	GLN	A	52	70.064	48.317	58.105	1.00	11.59
762	C	GLN	A	52	71.624	45.462	55.513	1.00	7.46
763	O	GLN	A	52	70.463	45.835	55.360	1.00	9.03
764	N	ASN	A	53	72.368	44.973	54.524	1.00	7.94
766	CA	ASN	A	53	71.877	44.775	53.154	1.00	8.17
768	CB	ASN	A	53	73.010	44.117	52.361	1.00	8.71
771	CG	ASN	A	53	72.764	43.987	50.864	1.00	9.78
772	OD1	ASN	A	53	73.715	43.784	50.139	1.00	9.29
773	ND2	ASN	A	53	71.520	44.062	50.400	1.00	10.22
776	C	ASN	A	53	70.630	43.903	53.228	1.00	8.45
777	O	ASN	A	53	69.614	44.184	52.575	1.00	9.39
778	N	LEU	A	54	70.671	42.836	54.004	1.00	8.18
780	CA	LEU	A	54	69.500	41.992	54.159	1.00	8.18
782	CB	LEU	A	54	69.880	40.772	54.949	1.00	7.76
785	CG	LEU	A	54	70.186	39.458	54.243	1.00	13.79
787	CD1	LEU	A	54	70.262	39.403	52.719	1.00	8.45
791	CD2	LEU	A	54	71.181	38.560	54.955	1.00	10.18
795	C	LEU	A	54	68.366	42.737	54.865	1.00	8.34
796	O	LEU	A	54	67.212	42.739	54.420	1.00	8.16
797	N	VAL	A	55	68.673	43.399	55.967	1.00	8.48
799	CA	VAL	A	55	67.643	44.115	56.709	1.00	9.52
801	CB	VAL	A	55	68.235	44.839	57.920	1.00	9.28
803	CG1	VAL	A	55	67.256	45.856	58.503	1.00	10.40
807	CG2	VAL	A	55	68.648	43.819	58.958	1.00	10.57

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
811	C	VAL	A	55	66.863	45.098	55.848	1.00	10.23
812	O	VAL	A	55	65.645	45.216	55.955	1.00	10.25
813	N	ASP	A	56	67.611	45.834	55.019	1.00	9.86
815	CA	ASP	A	56	67.059	46.911	54.217	1.00	10.61
817	CB	ASP	A	56	68.138	47.920	53.816	1.00	10.86
820	CG	ASP	A	56	68.782	48.643	54.966	1.00	11.97
821	OD1	ASP	A	56	68.248	48.677	56.097	1.00	11.58
822	OD2	ASP	A	56	69.829	49.316	54.755	1.00	13.77
823	C	ASP	A	56	66.464	46.460	52.904	1.00	11.01
824	O	ASP	A	56	65.590	47.143	52.369	1.00	11.28
825	N	CYS	A	57	66.967	45.356	52.369	1.00	10.95
827	CA	CYS	A	57	66.615	44.945	51.016	1.00	11.42
829	CB	CYS	A	57	67.872	44.800	50.159	1.00	12.43
832	SG	CYS	A	57	68.897	46.285	50.192	1.00	13.92
833	C	CYS	A	57	65.812	43.681	50.895	1.00	11.72
834	O	CYS	A	57	65.031	43.551	49.946	1.00	12.21
835	N	SER	A	58	66.016	42.725	51.787	1.00	10.84
837	CA	SER	A	58	65.268	41.472	51.753	1.00	10.61
839	CB	SER	A	58	66.126	40.323	52.295	1.00	10.76
842	OG	SER	A	58	65.428	39.103	52.285	1.00	11.12
844	C	SER	A	58	64.091	41.714	52.656	1.00	10.65
845	O	SER	A	58	64.104	41.339	53.815	1.00	10.18
846	N	THR	A	59	63.069	42.372	52.119	1.00	10.99
848	CA	THR	A	59	61.995	42.873	52.964	1.00	11.26
850	CB	THR	A	59	61.860	44.394	52.821	1.00	11.69
852	OG1	THR	A	59	61.811	44.753	51.444	1.00	14.33
854	CG2	THR	A	59	63.110	45.104	53.357	1.00	12.46
858	C	THR	A	59	60.683	42.161	52.703	1.00	11.35
859	O	THR	A	59	60.650	40.953	52.702	1.00	9.51
860	N	GLU	A	60	59.609	42.903	52.512	1.00	12.57
862	CA	GLU	A	60	58.291	42.289	52.443	1.00	13.36
864	CB	GLU	A	60	57.237	43.375	52.248	1.00	15.43
867	CG	GLU	A	60	57.314	44.112	50.949	1.00	19.60
870	CD	GLU	A	60	58.226	45.341	50.986	1.00	24.88
871	OE1	GLU	A	60	58.376	45.966	49.904	1.00	33.16
872	OE2	GLU	A	60	58.785	45.678	52.075	1.00	22.39
873	C	GLU	A	60	58.103	41.182	51.409	1.00	12.79
874	O	GLU	A	60	57.394	40.200	51.668	1.00	12.73
875	N	LYS	A	61	58.755	41.300	50.264	1.00	12.42
877	CA	LYS	A	61	58.598	40.289	49.238	1.00	12.20
879	CB	LYS	A	61	59.282	40.704	47.954	1.00	13.66
882	CG	LYS	A	61	58.587	41.891	47.308	1.00	19.06
885	CD	LYS	A	61	59.032	42.058	45.877	1.00	24.18
888	CE	LYS	A	61	57.994	42.804	45.067	1.00	28.09
891	NZ	LYS	A	61	56.687	42.062	45.085	1.00	31.37
895	C	LYS	A	61	59.165	38.958	49.695	1.00	11.07
896	O	LYS	A	61	58.833	37.916	49.146	1.00	11.28
897	N	TYR	A	62	60.043	39.012	50.696	1.00	8.88
899	CA	TYR	A	62	60.706	37.841	51.240	1.00	8.58
901	CB	TYR	A	62	62.220	38.087	51.317	1.00	8.55
904	CG	TYR	A	62	62.769	38.216	49.942	1.00	8.17

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
905	CD1	TYR	A	62	62.915	39.453	49.335	1.00	8.94
907	CE1	TYR	A	62	63.372	39.548	48.053	1.00	9.49
909	CZ	TYR	A	62	63.682	38.421	47.354	1.00	10.13
910	OH	TYR	A	62	64.131	38.536	46.068	1.00	12.74
912	CE2	TYR	A	62	63.519	37.185	47.913	1.00	9.66
914	CD2	TYR	A	62	63.083	37.091	49.219	1.00	8.09
916	C	TYR	A	62	60.139	37.438	52.591	1.00	9.11
917	O	TYR	A	62	60.641	36.532	53.255	1.00	9.78
918	N	GLY	A	63	59.065	38.106	52.996	1.00	9.58
920	CA	GLY	A	63	58.426	37.782	54.258	1.00	10.70
923	C	GLY	A	63	59.202	38.249	55.485	1.00	10.96
924	O	GLY	A	63	58.839	37.883	56.596	1.00	12.09
925	N	ASN	A	64	60.260	39.030	55.287	1.00	10.88
927	CA	ASN	A	64	61.064	39.585	56.390	1.00	10.67
929	CB	ASN	A	64	62.533	39.520	56.039	1.00	10.44
932	CG	ASN	A	64	62.948	38.144	55.666	1.00	9.70
933	OD1	ASN	A	64	62.551	37.163	56.268	1.00	11.46
934	ND2	ASN	A	64	63.803	38.089	54.658	1.00	10.82
937	C	ASN	A	64	60.619	41.004	56.713	1.00	11.80
938	O	ASN	A	64	60.106	41.699	55.842	1.00	14.10
939	N	ALA	A	65	60.837	41.425	57.963	1.00	11.58
941	CA	ALA	A	65	60.453	42.744	58.450	1.00	12.22
943	CB	ALA	A	65	59.288	42.643	59.391	1.00	13.20
947	C	ALA	A	65	61.620	43.459	59.121	1.00	12.25
948	O	ALA	A	65	61.447	44.109	60.143	1.00	12.30
949	N	GLY	A	66	62.809	43.296	58.560	1.00	11.56
951	CA	GLY	A	66	63.974	44.032	58.999	1.00	11.65
954	C	GLY	A	66	64.277	43.859	60.459	1.00	12.26
955	O	GLY	A	66	64.526	42.755	60.911	1.00	11.35
956	N	CYS	A	67	64.235	44.960	61.203	1.00	12.76
958	CA	CYS	A	67	64.512	44.908	62.633	1.00	13.87
960	CB	CYS	A	67	64.765	46.310	63.185	1.00	14.98
963	SG	CYS	A	67	66.367	46.936	62.633	1.00	20.83
964	C	CYS	A	67	63.432	44.209	63.444	1.00	13.60
965	O	CYS	A	67	63.589	44.029	64.638	1.00	13.97
966	N	ASN	A	68	62.344	43.804	62.795	1.00	12.40
968	CA	ASN	A	68	61.276	43.111	63.478	1.00	13.63
970	CB	ASN	A	68	59.954	43.843	63.288	1.00	13.48
973	CG	ASN	A	68	59.831	45.020	64.227	1.00	16.37
974	OD1	ASN	A	68	59.655	44.838	65.425	1.00	19.66
975	ND2	ASN	A	68	59.992	46.216	63.702	1.00	17.62
978	C	ASN	A	68	61.188	41.651	63.052	1.00	13.20
979	O	ASN	A	68	60.159	41.002	63.211	1.00	15.60
980	N	GLY	A	69	62.284	41.126	62.506	1.00	12.13
982	CA	GLY	A	69	62.370	39.705	62.246	1.00	10.81
985	C	GLY	A	69	62.347	39.303	60.795	1.00	10.90
986	O	GLY	A	69	61.908	40.051	59.924	1.00	11.79
987	N	GLY	A	70	62.832	38.102	60.546	1.00	9.81
989	CA	GLY	A	70	62.887	37.573	59.207	1.00	9.19
992	C	GLY	A	70	63.291	36.117	59.210	1.00	9.71
993	O	GLY	A	70	63.359	35.487	60.251	1.00	9.76

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
994	N	PHE	A	71	63.593	35.600	58.028	1.00	8.93
996	CA	PHE	A	71	63.939	34.214	57.837	1.00	9.61
998	CB	PHE	A	71	62.906	33.562	56.921	1.00	9.47
1001	CG	PHE	A	71	61.503	33.587	57.458	1.00	12.32
1002	CD1	PHE	A	71	60.577	34.511	57.007	1.00	15.23
1004	CE1	PHE	A	71	59.270	34.515	57.508	1.00	16.98
1006	CZ	PHE	A	71	58.903	33.601	58.461	1.00	17.37
1008	CE2	PHE	A	71	59.810	32.696	58.918	1.00	18.52
1010	CD2	PHE	A	71	61.110	32.675	58.405	1.00	16.82
1012	C	PHE	A	71	65.279	34.080	57.169	1.00	9.78
1013	O	PHE	A	71	65.573	34.842	56.269	1.00	9.49
1014	N	MET	A	72	66.092	33.103	57.571	1.00	8.77
1016	CA	MET	A	72	67.366	32.893	56.923	1.00	8.42
1018	CB	MET	A	72	68.253	31.937	57.707	1.00	8.41
1021	CG	MET	A	72	68.778	32.526	59.001	1.00	8.98
1024	SD	MET	A	72	67.633	32.408	60.355	1.00	10.95
1025	CE	MET	A	72	67.802	30.753	60.771	1.00	11.40
1029	C	MET	A	72	67.190	32.397	55.496	1.00	8.50
1030	O	MET	A	72	67.876	32.845	54.605	1.00	9.24
1031	N	THR	A	73	66.248	31.469	55.277	1.00	8.71
1033	CA	THR	A	73	66.041	30.918	53.935	1.00	9.14
1035	CB	THR	A	73	65.010	29.798	53.940	1.00	10.51
1037	OG1	THR	A	73	63.814	30.236	54.589	1.00	12.31
1039	CG2	THR	A	73	65.483	28.642	54.742	1.00	10.43
1043	C	THR	A	73	65.607	31.981	52.959	1.00	8.69
1044	O	THR	A	73	66.053	31.980	51.808	1.00	7.94
1045	N	THR	A	74	64.710	32.874	53.366	1.00	7.74
1047	CA	THR	A	74	64.255	33.872	52.395	1.00	8.53
1049	CB	THR	A	74	62.935	34.503	52.747	1.00	9.08
1051	OG1	THR	A	74	63.112	35.358	53.873	1.00	9.41
1053	CG2	THR	A	74	61.937	33.471	53.152	1.00	10.41
1057	C	THR	A	74	65.338	34.891	52.158	1.00	7.89
1058	O	THR	A	74	65.416	35.472	51.081	1.00	9.88
1059	N	ALA	A	75	66.188	35.113	53.159	1.00	8.72
1061	CA	ALA	A	75	67.349	35.954	52.956	1.00	8.46
1063	CB	ALA	A	75	68.126	36.104	54.247	1.00	8.87
1067	C	ALA	A	75	68.254	35.352	51.869	1.00	8.67
1068	O	ALA	A	75	68.756	36.062	50.997	1.00	7.71
1069	N	PHE	A	76	68.483	34.046	51.929	1.00	8.62
1071	CA	PHE	A	76	69.280	33.387	50.907	1.00	7.80
1073	CB	PHE	A	76	69.467	31.880	51.165	1.00	7.93
1076	CG	PHE	A	76	70.188	31.552	52.444	1.00	8.07
1077	CD1	PHE	A	76	69.801	30.479	53.206	1.00	8.11
1079	CE1	PHE	A	76	70.497	30.162	54.367	1.00	8.27
1081	CZ	PHE	A	76	71.576	30.919	54.732	1.00	9.23
1083	CE2	PHE	A	76	71.984	31.948	53.951	1.00	8.76
1085	CD2	PHE	A	76	71.300	32.269	52.825	1.00	8.16
1087	C	PHE	A	76	68.615	33.605	49.550	1.00	8.47
1088	O	PHE	A	76	69.283	33.895	48.558	1.00	7.71
1089	N	GLN	A	77	67.297	33.462	49.496	1.00	7.96
1091	CA	GLN	A	77	66.626	33.605	48.206	1.00	8.60

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1093	CB	GLN	A	77	65.163	33.204	48.298	1.00	8.91
1096	CG	GLN	A	77	64.494	33.127	46.917	1.00	9.75
1099	CD	GLN	A	77	65.106	32.047	46.007	1.00	9.93
1100	OE1	GLN	A	77	65.336	30.917	46.434	1.00	12.13
1101	NE2	GLN	A	77	65.348	32.402	44.733	1.00	11.34
1104	C	GLN	A	77	66.796	35.002	47.677	1.00	8.48
1105	O	GLN	A	77	66.975	35.186	46.484	1.00	8.43
1106	N	TYR	A	78	66.727	36.001	48.547	1.00	8.18
1108	CA	TYR	A	78	66.993	37.373	48.147	1.00	7.66
1110	CB	TYR	A	78	66.808	38.371	49.315	1.00	7.86
1113	CG	TYR	A	78	67.545	39.675	49.051	1.00	7.75
1114	CD1	TYR	A	78	66.972	40.685	48.312	1.00	8.74
1116	CE1	TYR	A	78	67.658	41.846	48.030	1.00	8.07
1118	CZ	TYR	A	78	68.967	42.017	48.500	1.00	9.19
1119	OH	TYR	A	78	69.658	43.178	48.214	1.00	10.00
1121	CE2	TYR	A	78	69.557	41.014	49.242	1.00	8.23
1123	CD2	TYR	A	78	68.861	39.851	49.488	1.00	8.01
1125	C	TYR	A	78	68.383	37.497	47.519	1.00	8.03
1126	O	TYR	A	78	68.564	38.088	46.467	1.00	8.18
1127	N	ILE	A	79	69.385	36.911	48.144	1.00	7.87
1129	CA	ILE	A	79	70.718	37.024	47.593	1.00	8.22
1131	CB	ILE	A	79	71.743	36.393	48.551	1.00	8.27
1133	CG1	ILE	A	79	71.696	37.098	49.889	1.00	8.93
1136	CD1	ILE	A	79	72.532	36.457	50.938	1.00	9.31
1140	CG2	ILE	A	79	73.143	36.514	47.986	1.00	8.27
1144	C	ILE	A	79	70.788	36.384	46.205	1.00	8.54
1145	O	ILE	A	79	71.428	36.933	45.286	1.00	9.65
1146	N	ILE	A	80	70.097	35.266	46.042	1.00	8.96
1148	CA	ILE	A	80	70.020	34.598	44.745	1.00	9.08
1150	CB	ILE	A	80	69.271	33.268	44.851	1.00	9.18
1152	CG1	ILE	A	80	70.065	32.285	45.717	1.00	9.39
1155	CD1	ILE	A	80	69.265	31.099	46.122	1.00	11.40
1159	CG2	ILE	A	80	68.998	32.713	43.470	1.00	11.43
1163	C	ILE	A	80	69.346	35.509	43.744	1.00	9.68
1164	O	ILE	A	80	69.898	35.795	42.669	1.00	10.88
1165	N	ASP	A	81	68.159	35.973	44.087	1.00	10.14
1167	CA	ASP	A	81	67.378	36.837	43.194	1.00	10.72
1169	CB	ASP	A	81	66.058	37.201	43.848	1.00	11.65
1172	CG	ASP	A	81	65.145	36.010	44.013	1.00	12.53
1173	OD1	ASP	A	81	64.158	36.131.	44.773	1.00	14.38
1174	OD2	ASP	A	81	65.334	34.930	43.424	1.00	13.77
1175	C	ASP	A	81	68.095	38.117	42.847	1.00	11.90
1176	O	ASP	A	81	68.035	38.590	41.706	1.00	12.57
1177	N	ASN	A	82	68.783	38.678	43.831	1.00	10.91
1179	CA	ASN	A	82	69.470	39.966	43.692	1.00	11.60
1181	CB	ASN	A	82	69.710	40.570	45.085	1.00	11.41
1184	CG	ASN	A	82	70.127	42.002	45.031	1.00	12.60
1185	OD1	ASN	A	82	69.430	42.837	44.477	1.00	12.65
1186	ND2	ASN	A	82	71.277	42.309	45.620	1.00	11.59
1189	C	ASN	A	82	70.805	39.855	42.970	1.00	11.62
1190	O	ASN	A	82	71.409	40.875	42.613	1.00	12.76

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1191	N	LYS	A	83	71.269	38.628	42.833	1.00	11.17
1193	CA	LYS	A	83	72.534	38.317	42.179	1.00	11.77
1195	CB	LYS	A	83	72.534	38.799	40.723	1.00	13.02
1198	CG	LYS	A	83	71.424	38.104	39.923	1.00	16.14
1201	CD	LYS	A	83	71.668	38.199	38.438	1.00	21.01
1204	CE	LYS	A	83	70.429	37.943	37.594	1.00	24.55
1207	NZ	LYS	A	83	69.794	36.626	37.843	1.00	27.58
1211	C	LYS	A	83	73.701	38.860	42.986	1.00	11.66
1212	O	LYS	A	83	74.748	39.187	42.441	1.00	12.84
1213	N	GLY	A	84	73.517	38.947	44.307	1.00	10.77
1215	CA	GLY	A	84	74.605	39.370	45.155	1.00	10.74
1218	C	GLY	A	84	74.222	39.972	46.482	1.00	10.21
1219	O	GLY	A	84	73.079	40.320	46.761	1.00	9.37
1220	N	ILE	A	85	75.239	40.121	47.324	1.00	8.79
1222	CA	ILE	A	85	75.114	40.813	48.598	1.00	8.78
1224	CB	ILE	A	85	74.882	39.805	49.758	1.00	8.92
1226	CG1	ILE	A	85	74.678	40.543	51.074	1.00	8.01
1229	CD1	ILE	A	85	74.298	39.603	52.203	1.00	9.78
1233	CG2	ILE	A	85	76.016	38.796	49.885	1.00	8.34
1237	C	ILE	A	85	76.402	41.604	48.786	1.00	8.57
1238	O	ILE	A	85	77.471	41.130	48.424	1.00	9.25
1239	N	ASP	A	86	76.290	42.792	49.348	1.00	8.93
1241	CA	ASP	A	86	77.439	43.665	49.582	1.00	8.56
1243	CB	ASP	A	86	76.967	45.086	49.777	1.00	9.03
1246	CG	ASP	A	86	76.495	45.712	48.507	1.00	8.05
1247	OD1	ASP	A	86	76.974	45.278	47.420	1.00	10.46
1248	OD2	ASP	A	86	75.731	46.685	48.534	1.00	9.08
1249	C	ASP	A	86	78.240	43.210	50.803	1.00	8.72
1250	O	ASP	A	86	77.765	42.468	51.658	1.00	8.71
1251	N	SER	A	87	79.469	43.661	50.873	1.00	9.41
1253	CA	SER	A	87	80.273	43.400	52.056	1.00	9.29
1255	CB	SER	A	87	81.734	43.744	51.771	1.00	9.72
1258	OG	SER	A	87	81.871	45.137	51.637	1.00	10.12
1260	C	SER	A	87	79.774	44.258	53.207	1.00	9.23
1261	O	SER	A	87	79.166	45.290	53.030	1.00	8.87
1262	N	ASP	A	88	80.058	43.819	54.423	1.00	9.52
1264	CA	ASP	A	88	79.731	44.578	55.627	1.00	11.12
1266	CB	ASP	A	88	80.115	43.730	56.838	1.00	11.26
1269	CG	ASP	A	88	79.774	44.375	58.137	1.00	15.89
1270	OD1	ASP	A	88	78.598	44.691	58.384	1.00	17.31
1271	OD2	ASP	A	88	80.637	44.525	59.019	1.00	22.11
1272	C	ASP	A	88	80.471	45.943	55.623	1.00	10.71
1273	O	ASP	A	88	79.909	46.990	55.966	1.00	11.43
1274	N	ALA	A	89	81.727	45.926	55.202	1.00	11.74
1276	CA	ALA	A	89	82.512	47.173	55.121	1.00	11.97
1278	CB	ALA	A	89	83.919	46.899	54.601	1.00	12.13
1282	C	ALA	A	89	81.854	48.254	54.257	1.00	12.39
1284	N	SER	A	90	81.246	47.770	53.174	1.00	11.37
1286	CA	SER	A	90	80.644	48.666	52.207	1.00	12.12
1288	CB	SER	A	90	80.601	48.009	50.829	1.00	11.86
1291	OG	SER	A	90	79.623	46.974	50.742	1.00	14.44

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1293	C	SER	A	90	79.250	49.099	52.585	1.00	12.03
1294	O	SER	A	90	78.796	50.165	52.176	1.00	13.24
1295	N	TYR	A	91	78.578	48.267	53.364	1.00	10.91
1297	CA	TYR	A	91	77.171	48.462	53.699	1.00	10.77
1299	CB	TYR	A	91	76.323	47.538	52.828	1.00	10.86
1302	CG	TYR	A	91	74.857	47.900	52.704	1.00	9.36
1303	CD1	TYR	A	91	74.209	48.625	53.678	1.00	10.28
1305	CE1	TYR	A	91	72.896	48.949	53.575	1.00	9.06
1307	CZ	TYR	A	91	72.169	48.538	52.476	1.00	11.94
1308	OH	TYR	A	91	70.842	48.876	52.359	1.00	12.23
1311	CD2	TYR	A	91	74.114	47.440	51.635	1.00	12.15
1312	C	TYR	A	91	77.060	48.096	55.172	1.00	11.20
1313	O	TYR	A	91	76.670	47.003	55.547	1.00	10.53
1314	N	PRO	A	92	77.503	49.019	56.018	1.00	12.04
1315	CA	PRO	A	92	77.639	48.729	57.447	1.00	12.68
1317	CB	PRO	A	92	78.431	49.915	57.957	1.00	13.19
1320	CG	PRO	A	92	78.872	50.585	56.760	1.00	15.61
1323	CD	PRO	A	92	77.917	50.399	55.701	1.00	13.69
1326	C	PRO	A	92	76.356	48.619	58.203	1.00	11.86
1327	O	PRO	A	92	75.332	49.143	57.810	1.00	11.43
1328	N	TYR	A	93	76.446	47.942	59.331	1.00	11.87
1330	CA	TYR	A	93	75.271	47.655	60.131	1.00	11.07
1332	CB	TYR	A	93	75.540	46.400	60.941	1.00	10.94
1335	CG	TYR	A	93	74.367	45.954	61.770	1.00	10.33
1336	CD1	TYR	A	93	73.225	45.444	61.177	1.00	9.36
1338	CE1	TYR	A	93	72.151	45.042	61.947	1.00	9.94
1340	CZ	TYR	A	93	72.215	45.176	63.308	1.00	10.19
1341	OH	TYR	A	93	71.148	44.778	64.060	1.00	11.44
1343	CE2	TYR	A	93	73.333	45.693	63.913	1.00	9.57
1345	CD2	TYR	A	93	74.383	46.093	63.140	1.00	10.07
1347	C	TYR	A	93	74.943	48.808	61.050	1.00	12.05
1348	O	TYR	A	93	75.817	49.280	61.783	1.00	13.21
1349	N	LYS	A	94	73.691	49.245	61.011	1.00	12.38
1351	CA	LYS	A	94	73.250	50.387	61.790	1.00	13.76
1353	CB	LYS	A	94	72.690	51.432	60.845	1.00	15.11
1356	CG	LYS	A	94	73.668	51.887	59.776	1.00	17.85
1359	CD	LYS	A	94	74.784	52.654	60.385	1.00	23.31
1362	CE	LYS	A	94	75.753	53.161	59.342	1.00	26.53
1365	NZ	LYS	A	94	76.764	54.033	59.984	1.00	29.62
1369	C	LYS	A	94	72.184	50.052	62.814	1.00	13.22
1370	O	LYS	A	94	71.735	50.925	63.556	1.00	13.40
1371	N	ALA	A	95	71.763	48.798	62.851	1.00	12.76
1373	CA	ALA	A	95	70.758	48.332	63.805	1.00	12.89
1375	CB	ALA	A	95	71.297	48.339	65.242	1.00	12.52
1379	C	ALA	A	95	69.456	49.125	63.699	1.00	13.54
1380	O	ALA	A	95	68.818	49.449	64.715	1.00	13.99
1381	N	MET	A	96	69.091	49.453	62.472	1.00	13.83
1383	CA	MET	A	96	67.842	50.135	62.181	1.00	14.33
1385	CB	MET	A	96	68.016	51.646	62.301	1.00	16.16
1389	SD	MET	A	96	69.058	54.164	62.344	1.00	38.83
1390	CE	MET	A	96	68.589	54.315	64.043	1.00	39.15

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1391	C	MET	A	96	67.398	49.801	60.775	1.00	14.77
1392	O	MET	A	96	68.208	49.394	59.952	1.00	15.57
1393	N	ASP	A	97	66.113	49.992	60.504	1.00	14.90
1395	CA	ASP	A	97	65.592	49.840	59.163	1.00	15.37
1397	CB	ASP	A	97	64.071	49.712	59.176	1.00	15.74
1400	CG	ASP	A	97	63.602	48.461	59.858	1.00	17.13
1401	OD1	ASP	A	97	62.674	48.534	60.694	1.00	21.38
1402	OD2	ASP	A	97	64.092	47.356	59.624	1.00	16.47
1403	C	ASP	A	97	65.964	51.065	58.351	1.00	15.67
1404	O	ASP	A	97	65.831	52.208	58.813	1.00	18.09
1405	N	GLN	A	98	66.433	50.833	57.142	1.00	15.57
1407	CA	GLN	A	98	66.751	51.927	56.250	1.00	15.92
1409	CB	GLN	A	98	68.254	52.191	56.215	1.00	16.42
1412	CG	GLN	A	98	68.986	52.134	57.542	1.00	17.34
1415	CD	GLN	A	98	70.513	52.159	57.348	1.00	20.16
1416	OE1	GLN	A	98	71.077	51.362	56.589	1.00	21.49
1417	NE2	GLN	A	98	71.172	53.068	58.025	1.00	20.71
1420	C	GLN	A	98	66.315	51.566	54.851	1.00	16.04
1421	O	GLN	A	98	65.953	50.438	54.558	1.00	16.92
1422	N	LYS	A	99	66.388	52.517	53.942	1.00	17.33
1424	CA	LYS	A	99	66.011	52.179	52.589	1.00	18.24
1426	CB	LYS	A	99	65.812	53.423	51.755	1.00	19.45
1429	CG	LYS	A	99	66.837	54.460	51.983	1.00	24.15
1432	CD	LYS	A	99	66.632	55.620	51.001	1.00	29.03
1435	CE	LYS	A	99	65.247	55.569	50.340	1.00	30.82
1438	NZ	LYS	A	99	64.089	55.683	51.292	1.00	32.46
1442	C	LYS	A	99	67.075	51.298	51.964	1.00	17.60
1443	O	LYS	A	99	68.233	51.310	52.387	1.00	17.19
1444	N	CYS	A	100	66.668	50.530	50.968	1.00	17.89
1446	CA	CYS	A	100	67.563	49.656	50.240	1.00	18.61
1448	CB	CYS	A	100	66.785	48.912	49.160	1.00	19.74
1451	SG	CYS	A	100	67.861	47.885	48.131	1.00	27.28
1452	C	CYS	A	100	68.660	50.466	49.582	1.00	17.61
1453	O	CYS	A	100	68.362	51.409	48.851	1.00	17.91
1454	N	GLN	A	101	69.919	50.123	49.846	1.00	16.17
1456	CA	GLN	A	101	71.042	50.835	49.260	1.00	16.13
1458	CB	GLN	A	101	71.727	51.683	50.322	1.00	16.73
1461	CG	GLN	A	101	70.791	52.712	50.947	1.00	20.43
1464	CD	GLN	A	101	71.229	53.147	52.329	1.00	23.94
1465	OE1	GLN	A	101	70.466	53.012	53.301	1.00	25.49
1466	NE2	GLN	A	101	72.454	53.673	52.432	1.00	25.45
1469	C	GLN	A	101	72.024	49.883	48.602	1.00	14.01
1470	O	GLN	A	101	73.195	50.197	48.424	1.00	13.51
1471	N	TYR	A	102	71.545	48.699	48.247	1.00	12.47
1473	CA	TYR	A	102	72.383	47.723	47.595	1.00	12.18
1475	CB	TYR	A	102	71.600	46.477	47.192	1.00	11.65
1478	CG	TYR	A	102	72.451	45.520	46.371	1.00	11.45
1479	CD1	TYR	A	102	73.403	44.707	46.961	1.00	10.07
1481	CE1	TYR	A	102	74.173	43.863	46.246	1.00	10.60
1483	CZ	TYR	A	102	74.082	43.836	44.874	1.00	10.34
1484	OH	TYR	A	102	74.879	42.972	44.174	1.00	12.26

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1486	CE2	TYR	A	102	73.155	44.636	44.265	1.00	9.92
1488	CD2	TYR	A	102	72.372	45.474	44.994	1.00	11.91
1490	C	TYR	A	102	73.050	48.327	46.364	1.00	12.74
1491	O	TYR	A	102	72.405	49.007	45.560	1.00	12.69
1492	N	ASP	A	103	74.332	48.039	46.211	1.00	12.98
1494	CA	ASP	A	103	75.088	48.479	45.059	1.00	13.79
1496	CB	ASP	A	103	75.903	49.703	45.437	1.00	14.41
1499	CG	ASP	A	103	76.537	50.373	44.243	1.00	16.28
1500	OD1	ASP	A	103	76.745	49.722	43.206	1.00	19.81
1501	OD2	ASP	A	103	76.843	51.582	44.278	1.00	24.23
1502	C	ASP	A	103	75.980	47.346	44.596	1.00	13.61
1503	O	ASP	A	103	76.801	46.839	45.351	1.00	13.25
1504	N	SER	A	104	75.835	46.914	43.349	1.00	13.73
1506	CA	SER	A	104	76.638	45.805	42.857	1.00	14.25
1508	CB	SER	A	104	76.175	45.382	41.481	1.00	15.37
1511	OG	SER	A	104	76.373	46.434	40.564	1.00	18.86
1513	C	SER	A	104	78.148	46.058	42.836	1.00	13.62
1514	O	SER	A	104	78.933	45.111	42.780	1.00	13.57
1515	N	ALA	A	105	78.536	47.329	42.874	1.00	14.02
1517	CA	ALA	A	105	79.949	47.678	42.887	1.00	14.05
1519	CB	ALA	A	105	80.114	49.188	42.778	1.00	15.04
1523	C	ALA	A	105	80.594	47.172	44.157	1.00	14.12
1524	O	ALA	A	105	81.811	46.993	44.212	1.00	14.91
1525	N	TYR	A	106	79.774	46.987	45.189	1.00	12.65
1527	CA	TYR	A	106	80.270	46.538	46.491	1.00	12.64
1529	CB	TYR	A	106	79.717	47.432	47.584	1.00	13.67
1532	CG	TYR	A	106	80.068	48.883	47.414	1.00	15.56
1533	CD1	TYR	A	106	79.136	49.863	47.675	1.00	22.60
1535	CE1	TYR	A	106	79.447	51.197	47.538	1.00	24.51
1537	CZ	TYR	A	106	80.723	51.556	47.141	1.00	25.64
1538	OH	TYR	A	106	81.049	52.902	47.002	1.00	30.95
1540	CE2	TYR	A	106	81.667	50.594	46.892	1.00	23.29
1542	CD2	TYR	A	106	81.338	49.260	47.042	1.00	19.28
1544	C	TYR	A	106	79.924	45.080	46.801	1.00	12.60
1545	O	TYR	A	106	80.112	44.623	47.915	1.00	12.29
1546	N	ARG	A	107	79.675	44.286	45.780	1.00	11.59
1548	CA	ARG	A	107	79.141	42.948	45.929	1.00	12.06
1550	CB	ARG	A	107	78.651	42.364	44.600	1.00	12.43
1553	CG	ARG	A	107	77.642	41.239	44.760	1.00	19.10
1556	CD	ARG	A	107	77.714	40.157	43.714	1.00	21.47
1559	NE	ARG	A	107	78.378	40.600	42.511	1.00	25.78
1561	CZ	ARG	A	107	77.939	41.600	41.745	1.00	28.57
1562	NH1	ARG	A	107	78.624	41.971	40.673	1.00	30.25
1565	NH2	ARG	A	107	76.827	42.249	42.063	1.00	32.84
1568	C	ARG	A	107	80.338	42.141	46.399	1.00	12.40
1569	O	ARG	A	107	81.414	42.215	45.804	1.00	12.31
1570	N	ALA	A	108	80.167	41.352	47.445	1.00	10.86
1572	CA	ALA	A	108	81.228	40.480	47.924	1.00	11.36
1574	CB	ALA	A	108	81.622	40.882	49.342	1.00	11.48
1578	C	ALA	A	108	80.906	38.997	47.878	1.00	11.31
1579	O	ALA	A	108	81.790	38.167	48.063	1.00	12.89

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1580	N	ALA	A	109	79.657	38.650	47.601	1.00	10.73
1582	CA	ALA	A	109	79.283	37.261	47.498	1.00	10.90
1584	CB	ALA	A	109	79.051	36.650	48.879	1.00	10.89
1588	C	ALA	A	109	78.033	37.131	46.668	1.00	10.82
1589	O	ALA	A	109	77.316	38.101	46.463	1.00	10.40
1590	N	THR	A	110	77.816	35.902	46.234	1.00	11.20
1592	CA	THR	A	110	76.629	35.495	45.507	1.00	11.72
1594	CB	THR	A	110	76.914	35.257	44.026	1.00	12.47
1596	OG1	THR	A	110	77.961	34.278	43.875	1.00	14.50
1598	CG2	THR	A	110	77.401	36.538	43.346	1.00	14.63
1602	C	THR	A	110	76.154	34.217	46.144	1.00	11.75
1603	O	THR	A	110	76.846	33.619	46.951	1.00	12.09
1604	N	CYS	A	111	74.962	33.782	45.773	1.00	11.68
1606	CA	CYS	A	111	74.408	32.536	46.268	1.00	11.58
1608	CB	CYS	A	111	73.443	32.820	47.425	1.00	11.73
1611	SG	CYS	A	111	72.680	31.361	48.109	1.00	14.24
1612	C	CYS	A	111	73.699	31.887	45.078	1.00	11.92
1613	O	CYS	A	111	73.008	32.601	44.340	1.00	12.45
1614	N	SER	A	112	73.876	30.576	44.898	1.00	12.05
1616	CA	SER	A	112	73.225	29.857	43.785	1.00	13.72
1618	CB	SER	A	112	74.173	28.872	43.102	1.00	13.55
1621	OG	SER	A	112	74.734	27.958	44.000	1.00	17.64
1623	C	SER	A	112	71.971	29.142	44.236	1.00	14.06
1624	O	SER	A	112	71.059	28.884	43.432	1.00	15.16
1625	N	LYS	A	113	71.946	28.777	45.506	1.00	14.21
1627	CA	LYS	A	113	70.757	28.223	46.093	1.00	14.09
1629	CB	LYS	A	113	70.248	27.077	45.290	1.00	17.46
1632	CG	LYS	A	113	70.764	25.827	45.665	1.00	17.84
1635	CD	LYS	A	113	72.230	25.770	45.745	1.00	20.97
1638	CE	LYS	A	113	72.631	24.386	45.318	1.00	24.42
1641	NZ	LYS	A	113	71.876	23.382	46.102	1.00	26.61
1645	C	LYS	A	113	70.976	27.866	47.545	1.00	12.54
1646	O	LYS	A	113	72.023	28.182	48.099	1.00	11.47
1647	N	TYR	A	114	69.974	27.275	48.169	1.00	10.94
1649	CA	TYR	A	114	70.096	26.913	49.575	1.00	10.67
1651	CB	TYR	A	114	69.552	28.024	50.492	1.00	9.80
1654	CG	TYR	A	114	68.072	28.255	50.337	1.00	10.15
1655	CD1	TYR	A	114	67.173	27.627	51.171	1.00	9.93
1657	CE1	TYR	A	114	65.816	27.808	51.048	1.00	11.07
1659	CZ	TYR	A	114	65.357	28.635	50.063	1.00	10.47
1660	OH	TYR	A	114	63.979	28.824	49.933	1.00	13.05
1662	CE2	TYR	A	114	66.216	29.291	49.237	1.00	9.92
1664	CD2	TYR	A	114	67.588	29.105	49.368	1.00	10.20
1666	C	TYR	A	114	69.366	25.617	49.831	1.00	10.45
1667	O	TYR	A	114	68.549	25.174	49.023	1.00	10.52
1668	N	THR	A	115	69.672	24.999	50.956	1.00	10.04
1670	CA	THR	A	115	69.124	23.733	51.321	1.00	10.39
1672	CB	THR	A	115	70.240	22.677	51.288	1.00	11.48
1674	OG1	THR	A	115	70.762	22.562	49.953	1.00	13.46
1676	CG2	THR	A	115	69.706	21.282	51.656	1.00	12.62
1680	C	THR	A	115	68.589	23.835	52.724	1.00	10.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1681	O	THR	A	115	69.276	24.344	53.593	1.00	11.00
1682	N	GLU	A	116	67.381	23.353	52.940	1.00	10.19
1684	CA	GLU	A	116	66.777	23.282	54.257	1.00	10.63
1686	CB	GLU	A	116	65.316	23.747	54.241	1.00	11.21
1689	CG	GLU	A	116	64.585	23.591	55.559	1.00	16.56
1692	CD	GLU	A	116	64.938	24.657	56.577	1.00	21.26
1693	OE1	GLU	A	116	64.685	24.415	57.762	1.00	19.91
1694	OE2	GLU	A	116	65.429	25.737	56.194	1.00	22.35
1695	C	GLU	A	116	66.871	21.828	54.728	1.00	10.99
1696	O	GLU	A	116	66.487	20.899	53.992	1.00	11.77
1697	N	LEU	A	117	67.357	21.619	55.942	1.00	9.54
1699	CA	LEU	A	117	67.495	20.271	56.468	1.00	10.33
1701	CB	LEU	A	117	68.592	20.261	57.529	1.00	10.13
1704	CG	LEU	A	117	70.007	20.490	57.017	1.00	13.64
1706	CD1	LEU	A	117	71.012	20.212	58.133	1.00	14.25
1710	CD2	LEU	A	117	70.373	19.703	55.785	1.00	16.55
1714	C	LEU	A	117	66.195	19.784	57.046	1.00	9.94
1715	O	LEU	A	117	65.369	20.580	57.471	1.00	10.75
1716	N	PRO	A	118	66.051	18.472	57.136	1.00	10.31
1717	CA	PRO	A	118	64.820	17.889	57.653	1.00	10.41
1719	CB	PRO	A	118	65.044	16.390	57.483	1.00	11.40
1722	CG	PRO	A	118	66.490	16.204	57.467	1.00	13.12
1725	CD	PRO	A	118	67.055	17.432	56.877	1.00	12.37
1728	C	PRO	A	118	64.662	18.262	59.117	1.00	9.57
1729	O	PRO	A	118	65.636	18.336	59.885	1.00	10.97
1730	N	TYR	A	119	63.426	18.480	59.503	1.00	8.92
1732	CA	TYR	A	119	63.087	18.965	60.826	1.00	8.35
1734	CB	TYR	A	119	61.574	19.168	60.949	1.00	7.88
1737	CG	TYR	A	119	61.190	19.665	62.313	1.00	7.93
1738	CD1	TYR	A	119	61.126	21.015	62.577	1.00	9.08
1740	CE1	TYR	A	119	60.824	21.472	63.814	1.00	9.37
1742	CZ	TYR	A	119	60.588	20.603	64.837	1.00	9.28
1743	OH	TYR	A	119	60.293	21.103	66.092	1.00	12.09
1745	CE2	TYR	A	119	60.637	19.245	64.626	1.00	9.95
1747	CD2	TYR	A	119	60.933	18.785	63.349	1.00	8.02
1749	C	TYR	A	119	63.536	18.074	61.945	1.00	8.81
1750	O	TYR	A	119	63.231	16.894	61.966	1.00	9.91
1751	N	GLY	A	120	64.299	18.649	62.876	1.00	10.11
1753	CA	GLY	A	120	64.647	17.981	64.108	1.00	10.48
1756	C	GLY	A	120	65.723	16.924	64.048	1.00	10.39
1757	O	GLY	A	120	65.980	16.279	65.061	1.00	12.29
1758	N	ARG	A	121	66.340	16.719	62.891	1.00	10.56
1760	CA	ARG	A	121	67.264	15.597	62.726	1.00	11.08
1762	CB	ARG	A	121	67.163	15.021	61.318	1.00	11.64
1765	CG	ARG	A	121	65.805	14.331	61.037	1.00	13.97
1768	CD	ARG	A	121	65.701	12.938	61.675	1.00	18.88
1771	NE	ARG	A	121	66.804	12.039	61.273	1.00	23.70
1773	CZ	ARG	A	121	67.071	11.576	60.047	1.00	26.61
1774	NH1	ARG	A	121	66.336	11.876	58.978	1.00	29.00
1777	NH2	ARG	A	121	68.110	10.767	59.879	1.00	27.92
1780	C	ARG	A	121	68.691	16.051	63.070	1.00	10.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1781	O	ARG	A	121	69.367	16.693	62.269	1.00	10.99
1782	N	GLU	A	122	69.172	15.658	64.238	1.00	10.92
1784	CA	GLU	A	122	70.449	16.220	64.691	1.00	10.77
1786	CB	GLU	A	122	70.620	16.312	66.201	1.00	11.30
1789	CG	GLU	A	122	69.670	17.273	66.903	1.00	11.49
1792	CD	GLU	A	122	69.914	17.279	68.383	1.00	10.90
1793	OE1	GLU	A	122	70.907	17.924	68.809	1.00	12.61
1794	OE2	GLU	A	122	69.158	16.617	69.113	1.00	12.77
1795	C	GLU	A	122	71.587	15.480	64.025	1.00	10.70
1796	O	GLU	A	122	72.685	16.019	63.883	1.00	10.04
1797	N	ASP	A	123	71.319	14.245	63.611	1.00	11.23
1799	CA	ASP	A	123	72.294	13.496	62.832	1.00	11.54
1801	CB	ASP	A	123	71.919	12.004	62.746	1.00	12.35
1804	CG	ASP	A	123	70.522	11.758	62.259	1.00	16.29
1805	OD1	ASP	A	123	70.224	10.549	62.035	1.00	23.03
1806	OD2	ASP	A	123	69.645	12.629	62.091	1.00	17.22
1807	C	ASP	A	123	72.546	14.105	61.444	1.00	10.74
1808	O	ASP	A	123	73.690	14.193	60.962	1.00	11.34
1809	N	VAL	A	124	71.481	14.561	60.798	1.00	10.66
1811	CA	VAL	A	124	71.609	15.201	59.509	1.00	10.45
1813	CB	VAL	A	124	70.233	15.362	58.831	1.00	10.68
1815	CG1	VAL	A	124	70.379	16.127	57.531	1.00	11.63
1819	CG2	VAL	A	124	69.605	13.981	58.619	1.00	12.29
1823	C	VAL	A	124	72.314	16.552	59.671	1.00	9.04
1824	O	VAL	A	124	73.123	16.944	58.838	1.00	10.27
1825	N	LEU	A	125	71.999	17.263	60.759	1.00	9.71
1827	CA	LEU	A	125	72.655	18.523	61.022	1.00	8.77
1829	CB	LEU	A	125	72.002	19.215	62.216	1.00	8.25
1832	CG	LEU	A	125	72.631	20.545	62.603	1.00	8.58
1834	CD1	LEU	A	125	72.640	21.547	61.459	1.00	7.65
1838	CD2	LEU	A	125	71.956	21.115	63.819	1.00	8.88
1842	C	LEU	A	125	74.144	18.295	61.231	1.00	8.32
1843	O	LEU	A	125	74.958	19.040	60.720	1.00	8.40
1844	N	LYS	A	126	74.488	17.221	61.933	1.00	9.47
1846	CA	LYS	A	126	75.884	16.902	62.181	1.00	9.80
1848	CB	LYS	A	126	75.982	15.710	63.116	1.00	10.35
1851	CG	LYS	A	126	77.422	15.326	63.446	1.00	11.29
1854	CD	LYS	A	126	77.496	14.014	64.157	1.00	11.93
1857	CE	LYS	A	126	78.932	13.613	64.384	1.00	14.42
1860	NZ	LYS	A	126	79.002	12.244	65.003	1.00	14.97
1864	C	LYS	A	126	76.632	16.645	60.878	1.00	10.19
1865	O	LYS	A	126	77.689	17.168	60.618	1.00	9.36
1866	N	GLU	A	127	75.940	16.060	59.934	1.00	10.68
1868	CA	GLU	A	127	76.528	15.618	58.698	1.00	11.80
1870	CB	GLU	A	127	75.581	14.703	57.924	1.00	12.26
1873	CG	GLU	A	127	76.183	14.184	56.625	1.00	17.82
1876	CD	GLU	A	127	75.249	13.231	55.880	1.00	24.81
1877	OE1	GLU	A	127	75.594	12.820	54.748	1.00	30.58
1878	OE2	GLU	A	127	74.169	12.878	56.415	1.00	30.81
1879	C	GLU	A	127	76.765	16.890	57.886	1.00	10.63
1880	O	GLU	A	127	77.803	17.063	57.261	1.00	10.41

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1881	N	ALA	A	128	75.802	17.802	57.919	1.00	9.65
1883	CA	ALA	A	128	75.906	19.038	57.162	1.00	9.46
1885	CB	ALA	A	128	74.572	19.791	57.174	1.00	9.65
1889	C	ALA	A	128	77.026	19.929	57.705	1.00	9.71
1890	O	ALA	A	128	77.773	20.557	56.966	1.00	8.97
1891	N	VAL	A	129	77.104	20.009	59.024	1.00	9.81
1893	CA	VAL	A	129	78.131	20.834	59.641	1.00	10.35
1895	CB	VAL	A	129	77.932	20.917	61.164	1.00	9.67
1897	CG1	VAL	A	129	79.111	21.636	61.831	1.00	10.09
1901	CG2	VAL	A	129	76.657	21.658	61.498	1.00	11.58
1905	C	VAL	A	129	79.512	20.257	59.304	1.00	10.25
1906	O	VAL	A	129	80.451	21.011	58.991	1.00	11.60
1907	N	ALA	A	130	79.635	18.931	59.303	1.00	10.33
1909	CA	ALA	A	130	80.921	18.297	58.986	1.00	10.92
1911	CB	ALA	A	130	80.887	16.835	59.372	1.00	11.58
1915	C	ALA	A	130	81.320	18.420	57.512	1.00	11.52
1916	O	ALA	A	130	82.473	18.681	57.169	1.00	13.47
1917	N	ASN	A	131	80.328	18.230	56.647	1.00	12.06
1919	CA	ASN	A	131	80.564	18.098	55.216	1.00	12.89
1921	CB	ASN	A	131	79.779	16.903	54.697	1.00	13.41
1924	CG	ASN	A	131	80.098	15.642	55.462	1.00	18.03
1925	OD1	ASN	A	131	81.175	15.529	56.058	1.00	23.95
1926	ND2	ASN	A	131	79.162	14.685	55.468	1.00	24.96
1929	C	ASN	A	131	80.265	19.299	54.346	1.00	12.52
1930	O	ASN	A	131	80.785	19.386	53.224	1.00	14.05
1931	N	LYS	A	132	79.447	20.219	54.828	1.00	11.98
1933	CA	LYS	A	132	79.047	21.379	54.034	1.00	11.52
1935	CB	LYS	A	132	77.523	21.475	53.903	1.00	12.09
1938	CG	LYS	A	132	76.879	20.234	53.333	1.00	14.86
1941	CD	LYS	A	132	77.338	19.976	51.948	1.00	18.60
1944	CE	LYS	A	132	76.628	18.765	51.370	1.00	22.39
1947	NZ	LYS	A	132	77.040	18.566	49.974	1.00	24.93
1951	C	LYS	A	132	79.579	22.672	54.618	1.00	10.89
1952	O	LYS	A	132	80.044	23.511	53.890	1.00	12.16
1953	N	GLY	A	133	79.509	22.825	55.933	1.00	10.86
1955	CA	GLY	A	133	80.018	24.022	56.574	1.00	10.39
1958	C	GLY	A	133	79.024	24.471	57.621	1.00	9.08
1959	O	GLY	A	133	78.100	23.754	57.957	1.00	9.22
1960	N	PRO	A	134	79.237	25.667	58.151	1.00	8.54
1961	CA	PRO	A	134	78.321	26.231	59.126	1.00	8.52
1963	CB	PRO	A	134	78.898	27.624	59.367	1.00	8.68
1966	CG	PRO	A	134	80.386	27.413	59.170	1.00	8.71
1969	CD	PRO	A	134	80.400	26.527	57.936	1.00	8.56
1972	C	PRO	A	134	76.890	26.293	58.605	1.00	8.18
1973	O	PRO	A	134	76.646	26.564	57.423	1.00	9.37
1974	N	VAL	A	135	75.958	26.069	59.519	1.00	7.77
1976	CA	VAL	A	135	74.552	25.970	59.171	1.00	7.23
1978	CB	VAL	A	135	74.013	24.564	59.455	1.00	7.86
1980	CG1	VAL	A	135	72.528	24.473	59.155	1.00	7.98
1984	CG2	VAL	A	135	74.793	23.524	58.652	1.00	9.33
1988	C	VAL	A	135	73.724	26.964	59.948	1.00	7.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1989	O	VAL	A	135	73.855	27.053	61.166	1.00	7.45
1990	N	SER	A	136	72.879	27.701	59.261	1.00	6.93
1992	CA	SER	A	136	71.992	28.640	59.914	1.00	6.89
1994	CB	SER	A	136	71.336	29.558	58.896	1.00	7.58
1997	OG	SER	A	136	72.280	30.389	58.274	1.00	9.26
1999	C	SER	A	136	70.904	27.873	60.625	1.00	7.76
2000	O	SER	A	136	70.312	26.979	60.050	1.00	8.27
2001	N	VAL	A	137	70.608	28.229	61.861	1.00	6.95
2003	CA	VAL	A	137	69.553	27.579	62.604	1.00	7.33
2005	CB	VAL	A	137	70.106	26.481	63.549	1.00	7.43
2007	CG1	VAL	A	137	70.796	25.365	62.779	1.00	7.54
2011	CG2	VAL	A	137	71.018	27.098	64.582	1.00	8.98
2015	C	VAL	A	137	68.798	28.565	63.453	1.00	7.01
2016	O	VAL	A	137	69.272	29.670	63.673	1.00	7.91
2017	N	GLY	A	138	67.632	28.155	63.930	1.00	7.99
2019	CA	GLY	A	138	66.915	28.927	64.927	1.00	8.21
2022	C	GLY	A	138	66.959	28.190	66.241	1.00	8.99
2023	O	GLY	A	138	66.969	26.950	66.266	1.00	10.44
2024	N	VAL	A	139	66.994	28.945	67.335	1.00	8.90
2026	CA	VAL	A	139	66.934	28.357	68.646	1.00	8.49
2028	CB	VAL	A	139	68.301	28.366	69.380	1.00	9.11
2030	CG1	VAL	A	139	69.303	27.488	68.667	1.00	10.12
2034	CG2	VAL	A	139	68.809	29.787	69.552	1.00	10.01
2038	C	VAL	A	139	65.915	29.113	69.470	1.00	8.74
2039	O	VAL	A	139	65.580	30.261	69.168	1.00	9.27
2040	N	ASP	A	140	65.439	28.453	70.515	1.00	9.41
2042	CA	ASP	A	140	64.619	29.080	71.532	1.00	9.75
2044	CB	ASP	A	140	63.758	28.027	72.221	1.00	10.36
2047	CG	ASP	A	140	62.973	28.567	73.382	1.00	13.95
2048	OD1	ASP	A	140	63.018	29.788	73.636	1.00	13.07
2049	OD2	ASP	A	140	62.280	27.821	74.089	1.00	12.63
2050	C	ASP	A	140	65.582	29.742	72.509	1.00	10.48
2051	O	ASP	A	140	66.192	29.070	73.340	1.00	11.23
2052	N	ALA	A	141	65.736	31.055	72.376	1.00	9.84
2054	CA	ALA	A	141	66.627	31.800	73.255	1.00	10.56
2056	CB	ALA	A	141	67.563	32.644	72.403	1.00	10.21
2060	C	ALA	A	141	65.864	32.696	74.230	1.00	11.65
2061	O	ALA	A	141	66.420	33.703	74.660	1.00	13.88
2062	N	ALA	A	142	64.618	32.340	74.559	1.00	11.62
2064	CA	ALA	A	142	63.701	33.170	75.383	1.00	12.34
2066	CB	ALA	A	142	62.279	32.790	75.045	1.00	13.28
2070	C	ALA	A	142	63.848	33.075	76.893	1.00	12.91
2071	O	ALA	A	142	63.299	33.897	77.640	1.00	14.20
2072	N	HIS	A	143	64.542	32.028	77.328	1.00	11.67
2074	CA	HIS	A	143	64.734	31.745	78.736	1.00	10.65
2076	CB	HIS	A	143	64.909	30.229	78.886	1.00	11.31
2079	CG	HIS	A	143	63.760	29.489	78.294	1.00	12.62
2080	ND1	HIS	A	143	62.563	29.392	78.958	1.00	15.67
2082	CE1	HIS	A	143	61.677	28.789	78.187	1.00	18.84
2084	NE2	HIS	A	143	62.233	28.582	77.012	1.00	17.98
2086	CD2	HIS	A	143	63.541	28.995	77.055	1.00	16.74

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2088	C	HIS	A	143	65.867	32.533	79.375	1.00	10.05
2089	O	HIS	A	143	66.957	32.677	78.813	1.00	8.85
2090	N	PRO	A	144	65.618	33.058	80.572	1.00	9.31
2091	CA	PRO	A	144	66.619	33.858	81.263	1.00	9.10
2093	CB	PRO	A	144	65.981	34.078	82.639	1.00	9.27
2096	CG	PRO	A	144	64.554	34.116	82.356	1.00	9.48
2099	CD	PRO	A	144	64.356	33.003	81.328	1.00	10.45
2102	C	PRO	A	144	68.002	33.226	81.356	1.00	9.20
2103	O	PRO	A	144	69.002	33.922	81.269	1.00	9.58
2104	N	SER	A	145	68.074	31.912	81.469	1.00	8.53
2106	CA	SER	A	145	69.355	31.241	81.507	1.00	9.24
2108	CB	SER	A	145	69.181	29.741	81.708	1.00	9.98
2111	OG	SER	A	145	68.353	29.206	80.689	1.00	10.17
2113	C	SER	A	145	70.195	31.442	80.252	1.00	9.24
2114	O	SER	A	145	71.404	31.438	80.302	1.00	10.26
2115	N	PHE	A	146	69.550	31.622	79.120	1.00	8.12
2117	CA	PHE	A	146	70.280	31.777	77.878	1.00	8.41
2119	CB	PHE	A	146	69.311	31.790	76.696	1.00	8.68
2122	CG	PHE	A	146	69.989	31.730	75.353	1.00	9.31
2123	CD1	PHE	A	146	70.446	32.864	74.738	1.00	9.11
2125	CE1	PHE	A	146	71.073	32.815	73.499	1.00	10.41
2127	CZ	PHE	A	146	71.237	31.604	72.858	1.00	8.98
2129	CE2	PHE	A	146	70.784	30.463	73.447	1.00	9.09
2131	CD2	PHE	A	146	70.168	30.514	74.713	1.00	9.83
2133	C	PHE	A	146	71.099	33.051	77.918	1.00	8.58
2134	O	PHE	A	146	72.256	33.075	77.535	1.00	8.66
2135	N	PHE	A	147	70.463	34.134	78.344	1.00	8.28
2137	CA	PHE	A	147	71.145	35.416	78.385	1.00	8.90
2139	CB	PHE	A	147	70.175	36.519	78.836	1.00	8.80
2142	CG	PHE	A	147	68.910	36.602	78.030	1.00	9.02
2143	CD1	PHE	A	147	68.874	37.264	76.829	1.00	10.28
2145	CE1	PHE	A	147	67.695	37.367	76.112	1.00	11.17
2147	CZ	PHE	A	147	66.559	36.771	76.579	1.00	11.26
2149	CE2	PHE	A	147	66.588	36.141	77.766	1.00	10.27
2151	CD2	PHE	A	147	67.742	36.050	78.496	1.00	11.76
2153	C	PHE	A	147	72.332	35.409	79.336	1.00	8.96
2154	O	PHE	A	147	73.280	36.161	79.153	1.00	9.91
2155	N	LEU	A	148	72.257	34.562	80.357	1.00	8.62
2157	CA	LEU	A	148	73.269	34.494	81.405	1.00	8.80
2159	CB	LEU	A	148	72:587	34.268	82.750	1.00	9.36
2162	CG	LEU	A	148	71.784	35.450	83.268	1.00	11.87
2164	CD1	LEU	A	148	70.837	35.007	84.357	1.00	13.02
2168	CD2	LEU	A	148	72.709	36.549	83.731	1.00	14.79
2172	C	LEU	A	148	74.315	33.419	81.194	1.00	8.48
2173	O	LEU	A	148	75.194	33.203	82.040	1.00	8.85
2174	N	TYR	A	149	74.251	32.723	80.068	1.00	8.43
2176	CA	TYR	A	149	75.216	31.682	79.795	1.00	8.84
2178	CB	TYR	A	149	74.903	31.084	78.413	1.00	9.11
2181	CG	TYR	A	149	75.998	30.135	77.957	1.00	8.12
2182	CD1	TYR	A	149	77.085	30.588	77.249	1.00	10.58
2184	CE1	TYR	A	149	78.093	29.724	76.861	1.00	10.61

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2186	CZ	TYR	A	149	78.030	28.432	77.211	1.00	10.21
2187	OH	TYR	A	149	79.002	27.527	76.847	1.00	12.73
2189	CE2	TYR	A	149	76.973	27.949	77.918	1.00	8.84
2191	CD2	TYR	A	149	75.974	28.812	78.316	1.00	8.14
2193	C	TYR	A	149	76.630	32.239	79.786	1.00	9.36
2194	O	TYR	A	149	76.894	33.240	79.156	1.00	9.91
2195	N	ARG	A	150	77.562	31.475	80.337	1.00	11.00
2197	CA	ARG	A	150	78.940	31.916	80.410	1.00	13.06
2199	CB	ARG	A	150	79.383	32.296	81.818	1.00	13.71
2202	CG	ARG	A	150	78.785	33.579	82.319	1.00	17.64
2205	CD	ARG	A	150	79.526	34.139	83.521	1.00	22.44
2208	NE	ARG	A	150	80.525	35.139	83.150	1.00	28.55
2210	CZ	ARG	A	150	81.330	35.754	84.011	1.00	29.06
2211	NH1	ARG	A	150	81.275	35.466	85.315	1.00	32.76
2214	NH2	ARG	A	150	82.212	36.646	83.566	1.00	32.91
2217	C	ARG	A	150	79.847	30.859	79.853	1.00	14.38
2218	O	ARG	A	150	80.711	31.177	79.051	1.00	16.28
2219	N	SER	A	151	79.635	29.623	80.254	1.00	14.09
2221	CA	SER	A	151	80.498	28.530	79.838	1.00	15.27
2223	CB	SER	A	151	81.763	28.574	80.702	1.00	16.19
2226	OG	SER	A	151	81.422	28.217	82.023	1.00	20.80
2228	C	SER	A	151	79.841	27.175	80.004	1.00	13.74
2229	O	SER	A	151	78.766	27.039	80.535	1.00	14.33
2230	N	GLY	A	152	80.513	26.140	79.519	1.00	14.22
2232	CA	GLY	A	152	79.983	24.808	79.634	1.00	13.52
2235	C	GLY	A	152	78.998	24.506	78.519	1.00	12.08
2236	O	GLY	A	152	78.956	25.171	77.499	1.00	13.44
2237	N	VAL	A	153	78.205	23.482	78.735	1.00	10.92
2239	CA	VAL	A	153	77.216	23.103	77.735	1.00	10.45
2241	CB	VAL	A	153	77.243	21.614	77.462	1.00	9.54
2243	CG1	VAL	A	153	76.052	21.211	76.602	1.00	12.64
2247	CG2	VAL	A	153	78.545	21.268	76.795	1.00	10.69
2251	C	VAL	A	153	75.857	23.493	78.243	1.00	10.27
2252	O	VAL	A	153	75.387	23.015	79.278	1.00	12.04
2253	N	TYR	A	154	75.198	24.361	77.495	1.00	9.96
2255	CA	TYR	A	154	73.890	24.856	77.873	1.00	9.51
2257	CB	TYR	A	154	73.513	26.043	77.003	1.00	9.63
2260	CG	TYR	A	154	72.192	26.721	77.327	1.00	7.69
2261	CD1	TYR	A	154	72.065	27.565	78.410	1.00	9.40
2263	CE1	TYR	A	154	70.891	28.185	78.667	1.00	8.73
2265	CZ	TYR	A	154	69.809	27.993	77.857	1.00	9.00
2266	OH	TYR	A	154	68.624	28.620	78.089	1.00	9.78
2268	CE2	TYR	A	154	69.894	27.172	76.783	1.00	10.21
2270	CD2	TYR	A	154	71.083	26.549	76.511	1.00	9.56
2272	C	TYR	A	154	72.798	23.809	77.749	1.00	10.46
2273	O	TYR	A	154	72.546	23.248	76.683	1.00	10.19
2274	N	TYR	A	155	72.137	23.545	78.858	1.00	11.08
2276	CA	TYR	A	155	70.962	22.703	78.890	1.00	11.49
2278	CB	TYR	A	155	71.261	21.291	79.366	1.00	11.90
2281	CG	TYR	A	155	70.029	20.416	79.355	1.00	13.97
2282	CD1	TYR	A	155	69.609	19.792	78.188	1.00	16.03

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2284	CE1	TYR	A	155	68.479	19.018	78.160	1.00	17.16
2286	CZ	TYR	A	155	67.755	18.855	79.317	1.00	19.32
2287	OH	TYR	A	155	66.627	18.085	79.327	1.00	21.76
2289	CE2	TYR	A	155	68.148	19.459	80.480	1.00	18.42
2291	CD2	TYR	A	155	69.270	20.239	80.497	1.00	16.68
2293	C	TYR	A	155	69.948	23.378	79.803	1.00	12.53
2294	O	TYR	A	155	70.248	23.643	80.971	1.00	12.82
2295	N	GLU	A	156	68.775	23.664	79.264	1.00	11.20
2297	CA	GLU	A	156	67.724	24.357	79.989	1.00	12.03
2299	CB	GLU	A	156	67.501	25.714	79.326	1.00	12.58
2302	CG	GLU	A	156	66.272	26.509	79.780	1.00	13.48
2305	CD	GLU	A	156	66.192	26.623	81.281	1.00	15.11
2306	OE1	GLU	A	156	66.809	27.561	81.860	1.00	15.68
2307	OE2	GLU	A	156	65.542	25.771	81.919	1.00	15.92
2308	C	GLU	A	156	66.473	23.486	79.900	1.00	12.76
2309	O	GLU	A	156	65.887	23.384	78.845	1.00	12.36
2310	N	PRO	A	157	66.080	22.870	81.015	1.00	13.89
2311	CA	PRO	A	157	64.876	22.036	81.084	1.00	15.01
2313	CB	PRO	A	157	64.714	21.783	82.585	1.00	15.26
2316	CG	PRO	A	157	66.057	21.897	83.121	1.00	15.94
2319	CD	PRO	A	157	66.809	22.891	82.288	1.00	14.46
2322	C	PRO	A	157	63.639	22.726	80.555	1.00	15.21
2323	O	PRO	A	157	62.798	22.051	79.979	1.00	16.52
2324	N	SER	A	158	63.534	24.037	80.704	1.00	15.00
2326	CA	SER	A	158	62.360	24.768	80.231	1.00	15.20
2328	CB	SER	A	158	62.195	26.054	81.040	1.00	15.85
2331	OG	SER	A	158	63.200	27.009	80.694	1.00	18.36
2333	C	SER	A	158	62.395	25.112	78.739	1.00	15.01
2334	O	SER	A	158	61.444	25.698	78.195	1.00	14.99
2335	N	CYS	A	159	63.479	24.765	78.058	1.00	14.65
2337	CA	CYS	A	159	63.576	25.121	76.659	1.00	15.32
2339	CB	CYS	A	159	64.971	24.807	76.111	1.00	15.82
2342	SG	CYS	A	159	65.717	26.157	75.134	1.00	19.46
2343	C	CYS	A	159	62.506	24.363	75.865	1.00	15.27
2344	O	CYS	A	159	61.992	23.325	76.303	1.00	16.56
2345	N	THR	A	160	62.196	24.894	74.691	1.00	14.37
2347	CA	THR	A	160	61.195	24.313	73.800	1.00	14.29
2349	CB	THR	A	160	59.929	25.174	73.781	1.00	15.27
2351	OG1	THR	A	160	60.186	26.373	73.034	1.00	15.16
2353	CG2	THR	A	160	59.555	25.644	75.163	1.00	15.70
2357	C	THR	A	160	61.739	24.279	72.400	1.00	13.99
2358	O	THR	A	160	62.850	24.736	72.134	1.00	13.31
2359	N	GLN	A	161	60.916	23.758	71.490	1.00	13.08
2361	CA	GLN	A	161	61.240	23.746	70.090	1.00	13.25
2363	CB	GLN	A	161	60.896	22.388	69.467	1.00	13.15
2366	CG	GLN	A	161	61.858	21.270	69.856	1.00	12.98
2369	CD	GLN	A	161	61.565	20.677	71.210	1.00	13.59
2370	OE1	GLN	A	161	60.429	20.644	71.657	1.00	14.17
2371	NE2	GLN	A	161	62.615	20.193	71.884	1.00	15.01
2374	C	GLN	A	161	60.533	24.906	69.372	1.00	13.83
2375	O	GLN	A	161	60.429	24.913	68.152	1.00	15.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2376	N	ASN	A	162	60.080	25.897	70.127	1.00	14.74
2378	CA	ASN	A	162	59.421	27.067	69.564	1.00	15.59
2380	CB	ASN	A	162	58.341	27.560	70.512	1.00	16.23
2383	CG	ASN	A	162	57.219	26.544	70.671	1.00	19.55
2384	OD1	ASN	A	162	56.731	25.975	69.673	1.00	23.25
2385	ND2	ASN	A	162	56.819	26.293	71.904	1.00	24.33
2388	C	ASN	A	162	60.465	28.140	69.298	1.00	15.36
2389	O	ASN	A	162	60.998	28.734	70.219	1.00	15.41
2390	N	VAL	A	163	61.244	28.131	68.187	1.00	10.65
2392	CA	VAL	A	163	62.485	28.881	68.008	1.00	10.29
2394	CB	VAL	A	163	63.377	28.307	66.901	1.00	10.87
2396	CG1	VAL	A	163	63.729	26.861	67.248	1.00	12.53
2400	CG2	VAL	A	163	62.717	28.419	65.514	1.00	12.13
2404	C	VAL	A	163	62.164	30.342	67.757	1.00	10.71
2405	O	VAL	A	163	61.155	30.657	67.136	1.00	12.16
2406	N	ASN	A	164	63.039	31.227	68.213	1.00	9.91
2408	CA	ASN	A	164	62.806	32.652	68.074	1.00	10.63
2410	CB	ASN	A	164	62.208	33.229	69.355	1.00	10.42
2413	CG	ASN	A	164	63.244	33.413	70.465	1.00	13.48
2414	OD1	ASN	A	164	64.071	32.579	70.671	1.00	12.41
2415	ND2	ASN	A	164	63.180	34.555	71.186	1.00	19.14
2418	C	ASN	A	164	64.045	33.427	67.692	1.00	9.92
2419	O	ASN	A	164	63.965	34.638	67.463	1.00	11.88
2420	N	HIS	A	165	65.191	32.767	67.602	1.00	8.50
2422	CA	HIS	A	165	66.438	33.483	67.417	1.00	8.73
2424	CB	HIS	A	165	67.081	33.581	68.793	1.00	8.53
2427	CG	HIS	A	165	68.328	34.386	68.828	1.00	9.08
2428	ND1	HIS	A	165	68.371	35.704	68.410	1.00	14.10
2430	CE1	HIS	A	165	69.597	36.171	68.592	1.00	14.09
2432	NE2	HIS	A	165	70.331	35.218	69.142	1.00	11.57
2434	CD2	HIS	A	165	69.555	34.099	69.311	1.00	11.96
2436	C	HIS	A	165	67.370	32.780	66.434	1.00	8.56
2437	O	HIS	A	165	67.745	31.614	66.634	1.00	9.41
2438	N	GLY	A	166	67.717	33.467	65.374	1.00	7.36
2440	CA	GLY	A	166	68.592	32.911	64.370	1.00	7.82
2443	C	GLY	A	166	70.032	32.978	64.818	1.00	7.99
2444	O	GLY	A	166	70.501	34.036	65.242	1.00	9.99
2445	N	VAL	A	167	70.744	31.866	64.694	1.00	7.36
2447	CA	VAL	A	167	72.145	31.790	65.058	1.00	7.23
2449	CB	VAL	A	167	72.330	31.254	66.486	1.00	7.45
2451	CG1	VAL	A	167	71.776	32.242	67.496	1.00	10.34
2455	CG2	VAL	A	167	71.703	29.909	66.652	1.00	7.32
2459	C	VAL	A	167	72.853	30.900	64.042	1.00	7.36
2460	O	VAL	A	167	72.233	30.459	63.065	1.00	7.38
2461	N	LEU	A	168	74.135	30.625	64.247	1.00	6.74
2463	CA	LEU	A	168	74.915	29.864	63.302	1.00	6.96
2465	CB	LEU	A	168	75.923	30.780	62.614	1.00	7.61
2468	CG	LEU	A	168	76.767	30.201	61.496	1.00	7.59
2470	CD1	LEU	A	168	75.862	29.930	60.278	1.00	8.89
2474	CD2	LEU	A	168	77.897	31.107	61.118	1.00	9.51
2478	C	LEU	A	168	75.630	28.753	64.011	1.00	7.40

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2479	O	LEU	A	168	76.400	29.003	64.947	1.00	8.25
2480	N	VAL	A	169	75.394	27.541	63.559	1.00	6.97
2482	CA	VAL	A	169	76.115	26.392	64.075	1.00	7.43
2484	CB	VAL	A	169	75.348	25.099	63.926	1.00	8.17
2486	CG1	VAL	A	169	76.236	23.950	64.379	1.00	7.39
2490	CG2	VAL	A	169	74.059	25.167	64.691	1.00	8.53
2494	C	VAL	A	169	77.425	26.302	63.324	1.00	8.18
2495	O	VAL	A	169	77.448	26.068	62.100	1.00	9.10
2496	N	VAL	A	170	78.543	26.455	64.034	1.00	8.35
2498	CA	VAL	A	170	79.851	26.441	63.420	1.00	8.74
2500	CB	VAL	A	170	80.664	27.719	63.735	1.00	8.05
2502	CG1	VAL	A	170	79.982	28.943	63.129	1.00	9.46
2506	CG2	VAL	A	170	80.809	27.912	65.233	1.00	10.17
2510	C	VAL	A	170	80.662	25.216	63.815	1.00	8.49
2511	O	VAL	A	170	81.825	25.106	63.451	1.00	10.30
2512	N	GLY	A	171	80.062	24.296	64.544	1.00	7.21
2514	CA	GLY	A	171	80.774	23.110	64.936	1.00	8.40
2517	C	GLY	A	171	79.981	22.284	65.906	1.00	8.29
2518	O	GLY	A	171	78.808	22.542	66.190	1.00	8.22
2519	N	TYR	A	172	80.629	21.254	66.434	1.00	8.01
2521	CA	TYR	A	172	80.011	20.367	67.390	1.00	7.80
2523	CB	TYR	A	172	79.006	19.427	66.709	1.00	8.02
2526	CG	TYR	A	172	79.592	18.493	65.663	1.00	8.30
2527	CD1	TYR	A	172	80.284	17.361	66.027	1.00	8.34
2529	CE1	TYR	A	172	80.815	16.518	65.075	1.00	8.68
2531	CZ	TYR	A	172	80.618	16.792	63.747	1.00	9.96
2532	OH	TYR	A	172	81.121	15.957	62.775	1.00	11.55
2534	CE2	TYR	A	172	79.912	17.876	63.360	1.00	8.86
2536	CD2	TYR	A	172	79.413	18.734	64.302	1.00	7.83
2538	C	TYR	A	172	81.136	19.597	68.046	1.00	8.93
2539	O	TYR	A	172	82.249	19.563	67.543	1.00	8.28
2540	N	GLY	A	173	80.834	19.004	69.172	1.00	8.40
2542	CA	GLY	A	173	81.820	18.201	69.876	1.00	9.34
2545	C	GLY	A	173	81.264	17.659	71.165	1.00	10.09
2546	O	GLY	A	173	80.067	17.484	71.341	1.00	9.49
2547	N	ASP	A	174	82.175	17.379	72.104	1.00	10.45
2549	CA	ASP	A	174	81.818	16.824	73.403	1.00	12.07
2551	CB	ASP	A	174	82.013	15.300	73.436	1.00	13.42
2554	CG	ASP	A	174	81.284	14.610	74.585	1.00	19.33
2555	OD1	ASP	A	174	81.207	13.357	74.509	1.00	28.93
2556	OD2	ASP	A	174	80.778	15.185	75.585	1.00	27.58
2557	C	ASP	A	174	82.709	17.469	74.437	1.00	10.98
2558	O	ASP	A	174	83.919	17.569	74.232	1.00	11.78
2559	N	LEU	A	175	82.067	17.967	75.488	1.00	10.40
2561	CA	LEU	A	175	82.717	18.587	76.620	1.00	10.52
2563	CB	LEU	A	175	82.469	20.086	76.644	1.00	10.62
2566	CG	LEU	A	175	83.006	20.880	77.849	1.00	12.27
2568	CD1	LEU	A	175	84.506	20.809	78.011	1.00	12.13
2572	CD2	LEU	A	175	82.555	22.308	77.817	1.00	12.39
2576	C	LEU	A	175	82.218	17.963	77.915	1.00	10.70
2578	N	ASN	A	176	83.244	17.305	78.488	1.00	11.40

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2580	CA	ASN	A	176	83.055	16.651	79.768	1.00	12.77
2582	CB	ASN	A	176	82.958	17.689	80.875	1.00	12.71
2585	CG	ASN	A	176	84.244	18.472	81.011	1.00	12.93
2586	OD1	ASN	A	176	84.246	19.699	81.145	1.00	17.26
2587	ND2	ASN	A	176	85.337	17.769	80.953	1.00	12.62
2590	C	ASN	A	176	81.853	15.742	79.772	1.00	13.51
2591	O	ASN	A	176	81.044	15.776	80.695	1.00	14.67
2592	N	GLY	A	177	81.762	14.911	78.751	1.00	15.00
2594	CA	GLY	A	177	80.671	13.965	78.665	1.00	15.11
2597	C	GLY	A	177	79.423	14.498	77.988	1.00	14.77
2598	O	GLY	A	177	78.552	13.727	77.590	1.00	17.38
2599	N	LYS	A	178	79.339	15.813	77.811	1.00	13.42
2601	CA	LYS	A	178	78.161	16.434	77.204	1.00	12.76
2603	CB	LYS	A	178	77.758	17.674	77.987	1.00	13.18
2606	CG	LYS	A	178	77.487	17.411	79.472	1.00	14.98
2609	CD	LYS	A	178	76.298	16.494	79.681	1.00	18.24
2612	CE	LYS	A	178	75.904	16.428	81.139	1.00	21.11
2615	NZ	LYS	A	178	74.698	15.565	81.266	1.00	22.91
2619	C	LYS	A	178	78.387	16.817	75.744	1.00	11.44
2620	O	LYS	A	178	79.223	17.660	75.441	1.00	10.83
2621	N	GLU	A	179	77.608	16.224	74.839	1.00	10.74
2623	CA	GLU	A	179	77.712	16.577	73.444	1.00	10.50
2625	CB	GLU	A	179	76.946	15.580	72.603	1.00	11.29
2628	CG	GLU	A	179	77.486	14.178	72.767	1.00	13.43
2631	CD	GLU	A	179	76.904	13.219	71.758	1.00	16.91
2632	OE1	GLU	A	179	77.671	12.740	70.878	1.00	22.34
2633	OE2	GLU	A	179	75.703	12.927	71.844	1.00	21.23
2634	C	GLU	A	179	77.146	17.964	73.246	1.00	9.11
2635	O	GLU	A	179	76.169	18.329	73.887	1.00	8.72
2636	N	TYR	A	180	77.735	18.722	72.346	1.00	7.73
2638	CA	TYR	A	180	77.237	20.070	72.126	1.00	7.44
2640	CB	TYR	A	180	78.063	21.093	72.962	1.00	8.20
2643	CG	TYR	A	180	79.505	21.210	72.494	1.00	7.70
2644	CD1	TYR	A	180	79.860	22.025	71.428	1.00	9.52
2646	CE1	TYR	A	180	81.122	22.075	70.956	1.00	10.78
2648	CZ	TYR	A	180	82.122	21.322	71.563	1.00	11.33
2649	OH	TYR	A	180	83.392	21.365	71.077	1.00	12.64
2651	CE2	TYR	A	180	81.805	20.521	72.633	1.00	9.69
2653	CD2	TYR	A	180	80.513	20.464	73.085	1.00	9.33
2655	C	TYR	A	180	77.302	20.456	70.658	1.00	7.90
2656	O	TYR	A	180	78.018	19.847	69.861	1.00	7.13
2657	N	TRP	A	181	76.552	21.511	70.358	1.00	7.24
2659	CA	TRP	A	181	76.637	22.256	69.143	1.00	7.16
2661	CB	TRP	A	181	75.238	22.605	68.635	1.00	7.34
2664	CG	TRP	A	181	74.408	21.443	68.228	1.00	6.74
2665	CD1	TRP	A	181	73.331	20.944	68.863	1.00	7.18
2667	NE1	TRP	A	181	72.831	19.856	68.177	1.00	7.84
2669	CE2	TRP	A	181	73.612	19.657	67.073	1.00	7.15
2670	CD2	TRP	A	181	74.605	20.643	67.063	1.00	7.46
2671	CE3	TRP	A	181	75.554	20.640	66.041	1.00	7.76
2673	CZ3	TRP	A	181	75.472	19.667	65.052	1.00	8.31

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2675	CH2	TRP	A	181	74.457	18.711	65.088	1.00	8.20
2677	CZ2	TRP	A	181	73.518	18.689	66.058	1.00	7.45
2679	C	TRP	A	181	77.351	23.555	69.471	1.00	7.52
2680	O	TRP	A	181	77.039	24.199	70.469	1.00	8.73
2681	N	LEU	A	182	78.289	23.952	68.638	1.00	7.47
2683	CA	LEU	A	182	78.993	25.205	68.849	1.00	8.17
2685	CB	LEU	A	182	80.425	25.114	68.377	1.00	9.09
2688	CG	LEU	A	182	81.276	26.367	68.553	1.00	10.77
2690	CD1	LEU	A	182	81.449	26.692	70.017	1.00	12.41
2694	CD2	LEU	A	182	82.633	26.143	67.904	1.00	13.16
2698	C	LEU	A	182	78.249	26.265	68.068	1.00	8.25
2699	O	LEU	A	182	78.206	26.205	66.829	1.00	8.17
2700	N	VAL	A	183	77.678	27.240	68.765	1.00	7.63
2702	CA	VAL	A	183	76.808	28.220	68.146	1.00	7.97
2704	CB	VAL	A	183	75.454	28.167	68.810	1.00	8.74
2706	CG1	VAL	A	183	74.544	29.283	68.332	1.00	9.15
2710	CG2	VAL	A	183	74.817	26.809	68.590	1.00	9.78
2714	C	VAL	A	183	77.377	29.628	68.256	1.00	8.32
2715	O	VAL	A	183	77.752	30.084	69.352	1.00	8.39
2716	N	LYS	A	184	77.480	30.293	67.122	1.00	7.51
2718	CA	LYS	A	184	77.860	31.689	67.039	1.00	7.53
2720	CB	LYS	A	184	78.501	31.952	65.693	1.00	7.37
2723	CG	LYS	A	184	79.094	33.330	65.554	1.00	7.75
2726	CD	LYS	A	184	79.435	33.681	64.102	1.00	9.08
2729	CE	LYS	A	184	80.356	34.918	63.980	1.00	10.20
2732	NZ	LYS	A	184	80.428	35.449	62.603	1.00	10.58
2736	C	LYS	A	184	76.635	32.535	67.168	1.00	7.84
2737	O	LYS	A	184	75.696	32.403	66.390	1.00	7.03
2738	N	ASN	A	185	76.600	33.384	68.182	1.00	7.72
2740	CA	ASN	A	185	75.489	34.287	68.394	1.00	8.40
2742	CB	ASN	A	185	75.172	34.300	69.892	1.00	8.73
2745	CG	ASN	A	185	73.834	34.928	70.241	1.00	8.85
2746	OD1	ASN	A	185	73.010	35.241	69.374	1.00	10.62
2747	ND2	ASN	A	185	73.624	35.155	71.537	1.00	10.62
2750	C	ASN	A	185	75.862	35.664	67.831	1.00	8.86
2751	O	ASN	A	185	76.995	35.865	67.386	1.00	9.97
2752	N	SER	A	186	74.924	36.608	67.856	1.00	8.64
2754	CA	SER	A	186	75.125	37.954	67.352	1.00	8.52
2756	CB	SER	A	186	74.254	38.212	66.119	1.00	8.51
2759	OG	SER	A	186	72.928	37.811	66.345	1.00	10.18
2761	C	SER	A	186	74.824	38.989	68.442	1.00	8.57
2762	O	SER	A	186	74.280	40.047	68.168	1.00	9.56
2763	N	TRP	A	187	75.241	38.687	69.666	1.00	8.49
2765	CA	TRP	A	187	75.092	39.629	70.783	1.00	8.55
2767	CB	TRP	A	187	74.364	39.005	71.963	1.00	8.15
2770	CG	TRP	A	187	72.936	38.670	71.670	1.00	9.02
2771	CD1	TRP	A	187	72.212	39.018	70.563	1.00	9.90
2773	NE1	TRP	A	187	70.939	38.506	70.654	1.00	11.51
2775	CE2	TRP	A	187	70.833	37.779	71.808	1.00	10.30
2776	CD2	TRP	A	187	72.073	37.866	72.477	1.00	9.40
2777	CE3	TRP	A	187	72.223	37.205	73.696	1.00	11.10

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2779	CZ3	TRP	A	187	71.146	36.500	74.214	1.00	11.94
2781	CH2	TRP	A	187	69.938	36.435	73.520	1.00	12.36
2783	CZ2	TRP	A	187	69.763	37.068	72.324	1.00	12.04
2785	C	TRP	A	187	76.462	40.131	71.244	1.00	9.10
2786	O	TRP	A	187	76.651	40.493	72.414	1.00	9.20
2787	N	GLY	A	188	77.413	40.172	70.328	1.00	8.87
2789	CA	GLY	A	188	78.747	40.633	70.656	1.00	9.53
2792	C	GLY	A	188	79.559	39.649	71.462	1.00	10.86
2793	O	GLY	A	188	79.114	38.578	71.837	1.00	10.90
2794	N	HIS	A	189	80.785	40.048	71.763	1.00	12.56
2796	CA	HIS	A	189	81.678	39.190	72.538	1.00	15.23
2798	CB	HIS	A	189	83.106	39.673	72.405	1.00	16.17
2801	CG	HIS	A	189	83.577	39.734	70.999	1.00	19.95
2802	ND1	HIS	A	189	84.158	38.663	70.359	1.00	26.55
2804	CE1	HIS	A	189	84.473	39.016	69.125	1.00	26.49
2806	NE2	HIS	A	189	84.100	40.270	68.939	1.00	27.65
2808	CD2	HIS	A	189	83.547	40.746	70.102	1.00	24.11
2810	C	HIS	A	189	81.373	39.062	74.011	1.00	14.64
2811	O	HIS	A	189	81.915	38.156	74.642	1.00	15.50
2812	N	ASN	A	190	80.511	39.916	74.574	1.00	14.92
2814	CA	ASN	A	190	80.164	39.837	76.006	1.00	15.35
2816	CB	ASN	A	190	79.385	41.074	76.470	1.00	16.10
2819	CG	ASN	A	190	79.148	41.078	77.976	1.00	17.48
2820	OD1	ASN	A	190	80.053	41.413	78.716	1.00	20.32
2821	ND2	ASN	A	190	77.959	40.651	78.435	1.00	17.49
2824	C	ASN	A	190	79.320	38.623	76.315	1.00	14.68
2825	O	ASN	A	190	79.258	38.127	77.446	1.00	16.24
2826	N	PHE	A	191	78.651	38.152	75.289	1.00	12.73
2828	CA	PHE	A	191	77.776	37.038	75.473	1.00	11.79
2830	CB	PHE	A	191	76.765	36.983	74.348	1.00	11.21
2833	CG	PHE	A	191	75.981	35.719	74.356	1.00	11.11
2834	CD1	PHE	A	191	76.327	34.679	73.526	1.00	11.28
2836	CE1	PHE	A	191	75.630	33.484	73.579	1.00	10.09
2838	CZ	PHE	A	191	74.591	33.347	74.463	1.00	13.66
2840	CE2	PHE	A	191	74.253	34.371	75.285	1.00	12.49
2842	CD2	PHE	A	191	74.946	35.533	75.256	1.00	12.71
2844	C	PHE	A	191	78.538	35.709	75.505	1.00	11.39
2845	O	PHE	A	191	79.409	35.476	74.662	1.00	10.84
2846	N	GLY	A	192	78.151	34.854	76.458	1.00	12.40
2848	CA	GLY	A	192	78.728	33.532	76.624	1.00	12.52
2851	C	GLY	A	192	80.248	33.471	76.564	1.00	13.04
2852	O	GLY	A	192	80.917	34.201	77.307	1.00	13.76
2853	N	ALA	A	192	80.771	32.661	75.631	1.00	11.69
2855	CA	ALA	A	193	82.193	32.403	75.468	1.00	12.15
2857	CB	ALA	A	193	82.484	30.929	75.319	1.00	13.90
2861	C	ALA	A	193	82.678	33.182	74.239	1.00	12.26
2862	O	ALA	A	193	82.768	32.656	73.133	1.00	10.86
2863	N	GLU	A	194	82.949	34.461	74.444	1.00	12.26
2865	CA	GLU	A	194	83.389	35.354	73.385	1.00	12.28
2867	CB	GLU	A	194	84.776	35.017	72.912	1.00	13.78
2870	CG	GLU	A	194	85.798	35.053	74.048	1.00	15.01

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2873	CD	GLU	A	194	86.099	36.436	74.612	1.00	19.69
2874	OE1	GLU	A	194	85.781	37.478	73.964	1.00	19.31
2875	OE2	GLU	A	194	86.730	36.480	75.702	1.00	22.60
2876	C	GLU	A	194	82.419	35.387	72.208	1.00	10.40
2877	O	GLU	A	194	82.829	35.504	71.054	1.00	10.53
2878	N	GLY	A	195	81.143	35.300	72.529	1.00	9.77
2880	CA	GLY	A	195	80.109	35.433	71.531	1.00	8.91
2883	C	GLY	A	195	79.483	34.119	71.133	1.00	8.59
2884	O	GLY	A	195	78.509	34.109	70.380	1.00	9.00
2885	N	TYR	A	196	80.028	33.024	71.650	1.00	8.38
2887	CA	TYR	A	196	79.592	31.674	71.339	1.00	8.53
2889	CB	TYR	A	196	80.795	30.824	70.913	1.00	7.89
2892	CG	TYR	A	196	81.383	31.261	69.602	1.00	8.55
2893	CD1	TYR	A	196	82.238	32.338	69.524	1.00	8.81
2895	CE1	TYR	A	196	82.746	32.756	68.324	1.00	10.70
2897	CZ	TYR	A	196	82.368	32.118	67.179	1.00	11.91
2898	OH	TYR	A	196	82.858	32.540	65.961	1.00	14.42
2900	CE2	TYR	A	196	81.513	31.053	67.227	1.00	11.42
2902	CD2	TYR	A	196	81.016	30.626	68.421	1.00	10.79
2904	C	TYR	A	196	78.923	30.999	72.509	1.00	8.55
2905	O	TYR	A	196	79.186	31.291	73.678	1.00	8.88
2906	N	ILE	A	197	78.061	30.050	72.196	1.00	7.00
2908	CA	ILE	A	197	77.416	29.234	73.196	1.00	7.38
2910	CB	ILE	A	197	75.957	29.684	73.506	1.00	8.02
2912	CG1	ILE	A	197	75.283	28.738	74.508	1.00	8.29
2915	CD1	ILE	A	197	74.007	29.325	75.074	1.00	8.75
2919	CG2	ILE	A	197	75.101	29.818	72.269	1.00	8.39
2923	C	ILE	A	197	77.509	27.780	72.736	1.00	8.49
2924	O	ILE	A	197	77.294	27.461	71.578	1.00	8.35
2925	N	ARG	A	198	77.723	26.883	73.665	1.00	8.54
2927	CA	ARG	A	198	77.814	25.466	73.377	1.00	8.93
2929	CB	ARG	A	198	78.945	24.754	74.122	1.00	8.40
2932	CG	ARG	A	198	80.296	25.233	73.751	1.00	12.01
2935	CD	ARG	A	198	81.362	24.260	74.180	1.00	16.18
2938	NE	ARG	A	198	82.589	24.922	74.592	1.00	20.61
2940	CZ	ARG	A	198	83.662	24.267	74.984	1.00	28.20
2941	NH1	ARG	A	198	83.678	22.935	75.011	1.00	31.60
2944	NH2	ARG	A	198	84.736	24.945	75.340	1.00	30.70
2947	C	ARG	A	198	76.465	24.990	73.863	1.00	8.74
2948	O	ARG	A	198	76.145	25.140	75.044	1.00	9.35
2949	N	MET	A	199	75.626	24.488	72.955	1.00	9.08
2951	CA	MET	A	199	74.280	24.075	73.275	1.00	8.70
2953	CB	MET	A	199	73.305	24.743	72.288	1.00	9.67
2956	CG	MET	A	199	73.354	26.254	72.393	1.00	10.15
2959	SD	MET	A	199	72.108	27.123	71.394	1.00	12.72
2960	CE	MET	A	199	70.651	26.623	72.280	1.00	13.68
2964	C	MET	A	199	74.147	22.550	73.224	1.00	8.33
2965	O	MET	A	199	74.754	21.916	72.374	1.00	9.38
2966	N	ALA	A	200	73.345	21.982	74.109	1.00	8.62
2968	CA	ALA	A	200	73.202	20.518	74.212	1.00	8.61
2970	CB	ALA	A	200	72.196	20.147	75.247	1.00	9.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2974	C	ALA	A	200	72.826	19.882	72.879	1.00	8.85
2975	O	ALA	A	200	71.914	20.335	72.189	1.00	9.50
2976	N	ARG	A	201	73.566	18.837	72.537	1.00	8.05
2978	CA	ARG	A	201	73.376	18.105	71.288	1.00	8.44
2980	CB	ARG	A	201	74.659	18.103	70.505	1.00	8.65
2983	CG	ARG	A	201	74.695	17.217	69.263	1.00	8.03
2986	CD	ARG	A	201	75.860	17.552	68.385	1.00	8.05
2989	NE	ARG	A	201	77.141	17.144	68.974	1.00	8.96
2991	CZ	ARG	A	201	77.710	15.974	68.739	1.00	10.43
2992	NH1	ARG	A	201	77.119	15.094	67.921	1.00	11.68
2995	NH2	ARG	A	201	78.862	15.663	69.317	1.00	11.45
2998	C	ARG	A	201	72.936	16.690	71.601	1.00	9.25
2999	O	ARG	A	201	73.381	16.085	72.588	1.00	10.70
3000	N	ASN	A	202	72.068	16.161	70.751	1.00	10.22
3002	CA	ASN	A	202	71.475	14.832	70.919	1.00	12.06
3004	CB	ASN	A	202	72.508	13.737	70.742	1.00	12.00
3007	CG	ASN	A	202	73.074	13.694	69.349	1.00	13.75
3008	OD1	ASN	A	202	72.403	14.051	68.379	1.00	19.63
3009	ND2	ASN	A	202	74.326	13.292	69.232	1.00	16.84
3012	C	ASN	A	202	70.723	14.694	72.244	1.00	12.14
3013	O	ASN	A	202	70.695	13.627	72.866	1.00	13.57
3014	N	LYS	A	203	70.100	15.784	72.674	1.00	12.78
3016	CA	LYS	A	203	69.270	15.821	73.840	1.00	12.82
3018	CB	LYS	A	203	69.814	16.817	74.858	1.00	13.07
3021	CG	LYS	A	203	71.099	16.359	75.488	1.00	15.16
3024	CD	LYS	A	203	70.895	15.148	76.335	1.00	17.36
3027	CE	LYS	A	203	72.119	14.878	77.168	1.00	20.65
3030	NZ	LYS	A	203	72.037	13.539	77.804	1.00	24.01
3034	C	LYS	A	203	67.849	16.216	73.404	1.00	12.76
3035	O	LYS	A	203	67.257	17.163	73.930	1.00	13.51
3036	N	GLY	A	204	67.322	15.491	72.424	1.00	13.21
3038	CA	GLY	A	204	65.961	15.713	71.985	1.00	12.63
3041	C	GLY	A	204	65.728	17.037	71.270	1.00	11.61
3042	O	GLY	A	204	64.692	17.672	71.498	1.00	12.80
3043	N	ASN	A	205	66.647	17.429	70.400	1.00	10.39
3045	CA	ASN	A	205	66.486	18.663	69.638	1.00	10.31
3047	CB	ASN	A	205	65.294	18.601	68.694	1.00	10.00
3050	CG	ASN	A	205	65.225	19.805	67.791	1.00	9.81
3051	OD1	ASN	A	205	66.220	20.472	67.595	1.00	11.31
3052	ND2	ASN	A	205	64.054	20.083	67.241	1.00	9.87
3055	C	ASN	A	205	66.297	19.815	70.630	1.00	9.86
3056	O	ASN	A	205	65.355	20.603	70.580	1.00	9.58
3057	N	HIS	A	206	67.243	19.900	71.538	1.00	9.50
3059	CA	HIS	A	206	67.184	20.879	72.602	1.00	9.83
3061	CB	HIS	A	206	68.366	20.685	73.541	1.00	10.75
3064	CG	HIS	A	206	68.193	21.365	74.855	1.00	12.73
3065	ND1	HIS	A	206	69.046	22.351	75.288	1.00	18.83
3067	CE1	HIS	A	206	68.673	22.748	76.491	1.00	13.41
3069	NE2	HIS	A	206	67.578	22.093	76.830	1.00	18.21
3071	CD2	HIS	A	206	67.284	21.178	75.842	1.00	16.24
3073	C	HIS	A	206	67.151	22.312	72.059	1.00	9.05

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3074	O	HIS	A	206	67.970	22.705	71.217	1.00	9.40
3075	N	CYS	A	207	66.181	23.068	72.564	1.00	9.67
3077	CA	CYS	A	207	65.987	24.462	72.183	1.00	10.09
3079	CB	CYS	A	207	67.213	25.301	72.537	1.00	11.22
3082	SG	CYS	A	207	67.454	25.464	74.328	1.00	14.76
3083	C	CYS	A	207	65.668	24.601	70.710	1.00	8.96
3084	O	CYS	A	207	65.742	25.695	70.181	1.00	9.52
3085	N	GLY	A	208	65.254	23.507	70.074	1.00	8.20
3087	CA	GLY	A	208	64.903	23.559	68.666	1.00	7.73
3090	C	GLY	A	208	66.068	23.774	67.706	1.00	7.74
3091	O	GLY	A	208	65.874	24.175	66.557	1.00	8.40
3092	N	ILE	A	209	67.290	23.502	68.157	1.00	8.32
3094	CA	ILE	A	209	68.458	23.775	67.344	1.00	8.73
3096	CB	ILE	A	209	69.739	23.411	68.128	1.00	9.51
3098	CG1	ILE	A	209	70.946	23.964	67.392	1.00	13.12
3101	CD1	ILE	A	209	72.002	24.462	68.282	1.00	14.36
3105	CG2	ILE	A	209	69.825	21.946	68.410	1.00	11.21
3109	C	ILE	A	209	68.412	23.134	65.963	1.00	8.50
3110	O	ILE	A	209	68.844	23.767	64.984	1.00	8.73
3111	N	ALA	A	210	67.845	21.934	65.866	1.00	8.43
3113	CA	ALA	A	210	67.805	21.244	64.584	1.00	8.37
3115	CB	ALA	A	210	68.177	19.781	64.754	1.00	8.70
3119	C	ALA	A	210	66.451	21.360	63.933	1.00	8.52
3120	O	ALA	A	210	66.175	20.669	62.961	1.00	9.00
3121	N	SER	A	211	65.603	22.227	64.454	1.00	8.50
3123	CA	SER	A	211	64.267	22.387	63.897	1.00	8.56
3125	CB	SER	A	211	63.423	23.278	64.785	1.00	9.59
3128	OG	SER	A	211	63.135	22.632	65.999	1.00	8.77
3130	C	SER	A	211	64.272	22.931	62.469	1.00	9.47
3131	O	SER	A	211	63.656	22.333	61.579	1.00	9.57
3132	N	PHE	A	212	64.958	24.054	62.252	1.00	8.64
3134	CA	PHE	A	212	64.942	24.725	60.946	1.00	8.51
3136	CB	PHE	A	212	64.040	25.940	61.020	1.00	9.02
3139	CG	PHE	A	212	62.609	25.603	61.358	1.00	10.68
3140	CD1	PHE	A	212	62.108	25.848	62.629	1.00	11.62
3142	CE1	PHE	A	212	60.808	25.513	62.953	1.00	13.92
3144	CZ	PHE	A	212	60.002	24.940	62.020	1.00	13.43
3146	CE2	PHE	A	212	60.482	24.668	60.757	1.00	13.66
3148	CD2	PHE	A	212	61.794	24.990	60.425	1.00	13.75
3150	C	PHE	A	212	66.341	25.109	60.449	1.00	7.85
3151	O	PHE	A	212	66.668	26.297	60.359	1.00	7.35
3152	N	PRO	A	213	67.171	24.132	60.137	1.00	7.87
3153	CA	PRO	A	213	68.526	24.411	59.657	1.00	7.91
3155	CB	PRO	A	213	69.280	23.118	59.944	1.00	8.05
3158	CG	PRO	A	213	68.326	22.271	60.751	1.00	9.03
3161	CD	PRO	A	213	66.970	22.685	60.324	1.00	8.17
3164	C	PRO	A	213	68.569	24.645	58.168	1.00	7.81
3165	O	PRO	A	213	67.835	24.004	57.417	1.00	8.66
3166	N	SER	A	214	69.451	25.511	57.731	1.00	7.67
3168	CA	SER	A	214	69.589	25.767	56.316	1.00	8.91
3170	CB	SER	A	214	68.585	26.823	55.843	1.00	9.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3173	OG	SER	A	214	68.686	28.029	56.549	1.00	9.41
3175	C	SER	A	214	70.990	26.242	56.018	1.00	8.74
3176	O	SER	A	214	71.644	26.890	56.854	1.00	8.41
3177	N	TYR	A	214	71.488	25.965	54.820	1.00	8.11
3179	CA	TYR	A	215	72.770	26.496	54.419	1.00	8.57
3181	CB	TYR	A	215	73.878	25.524	54.750	1.00	8.86
3184	CG	TYR	A	215	73.802	24.225	53.997	1.00	9.58
3185	CD1	TYR	A	215	73.083	23.162	54.493	1.00	10.93
3187	CE1	TYR	A	215	73.014	21.984	53.824	1.00	12.85
3189	CZ	TYR	A	215	73.660	21.840	52.629	1.00	14.08
3190	OH	TYR	A	215	73.595	20.638	51.932	1.00	17.38
3192	CE2	TYR	A	215	74.387	22.870	52.098	1.00	13.57
3194	CD2	TYR	A	215	74.460	24.066	52.792	1.00	11.80
3196	C	TYR	A	215	72.771	26.825	52.939	1.00	8.35
3197	O	TYR	A	215	72.071	26.171	52.148	1.00	8.32
3198	N	PRO	A	216	73.505	27.849	52.554	1.00	8.33
3199	CA	PRO	A	216	73.558	28.279	51.164	1.00	9.32
3201	CB	PRO	A	216	73.838	29.766	51.292	1.00	9.52
3204	CG	PRO	A	216	74.640	29.869	52.609	1.00	9.40
3207	CD	PRO	A	216	74.338	28.694	53.428	1.00	9.08
3210	C	PRO	A	216	74.715	27.668	50.448	1.00	10.44
3211	O	PRO	A	216	75.616	27.154	51.078	1.00	10.23
3212	N	GLU	A	217	74.693	27.738	49.130	1.00	11.74
3214	CA	GLU	A	217	75.860	27.352	48.371	1.00	14.22
3216	CB	GLU	A	217	75.713	25.946	47.826	1.00	15.79
3219	CG	GLU	A	217	75.928	24.888	48.913	1.00	19.53
3222	CD	GLU	A	217	75.598	23.485	48.437	1.00	23.19
3223	OE1	GLU	A	217	76.533	22.762	48.014	1.00	28.75
3224	OE2	GLU	A	217	74.412	23.116	48.460	1.00	20.95
3225	C	GLU	A	217	76.147	28.401	47.307	1.00	15.13
3226	O	GLU	A	217	75.261	29.132	46.859	1.00	14.99
3227	N	ILE	A	218	77.421	28.537	46.971	1.00	16.50
3229	CA	ILE	A	218	77.837	29.462	45.940	1.00	18.88
3231	CB	ILE	A	218	79.033	30.267	46.443	1.00	18.61
3233	CG1	ILE	A	218	78.692	30.969	47.755	1.00	18.17
3236	CD1	ILE	A	218	79.837	31.846	48.272	1.00	18.40
3240	CG2	ILE	A	218	79.446	31.297	45.400	1.00	18.53
3244	C	ILE	A	218	78.212	28.569	44.771	1.00	22.02
3245	O	ILE	A	218	79.245	27.903	44.798	1.00	22.95
3246	N	GLY	A	219	77.323	28.493	43.793	1.00	25.34
3248	CA	GLY	A	219	77.477	27.585	42.661	1.00	26.67
3251	C	GLY	A	219	78.770	26.797	42.691	1.00	28.29
3252	O	GLY	A	219	79.804	27.285	42.206	1.00	30.46
3253	O5	E64	A	220	60.443	35.689	64.169	1.00	23.18
3254	C11	E64	A	220	61.269	35.440	63.307	1.00	23.53
3255	C6	E64	A	220	62.709	35.061	63.604	1.00	19.61
3257	C7	E64	A	220	62.844	33.610	64.019	1.00	18.27
3260	C8	E64	A	220	64.294	33.135	64.052	1.00	17.47
3262	C10	E64	A	220	65.114	33.414	62.804	1.00	17.99
3266	C9	E64	A	220	64.309	31.638	64.321	1.00	19.43
3270	N1	E64	A	220	63.254	35.884	64.676	1.00	19.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3272	C4	E64	A	220	63.918	37.003	64.371	1.00	21.88
3273	O4	E64	A	220	64.113	37.313	63.228	1.00	20.92
3274	C3	E64	A	220	64.450	37.903	65.449	1.00	24.96
3276	O3	E64	A	220	63.338	38.352	66.185	1.00	27.29
3278	C2	E64	A	220	65.405	37.161	66.372	1.00	25.08
3281	C1	E64	A	220	66.483	38.064	66.930	1.00	26.84
3282	O2	E64	A	220	67.021	39.002	66.164	1.00	23.76
3284	O1	E64	A	220	66.875	37.917	68.078	1.00	25.07
3285	N2	E64	A	220	61.155	35.463	61.989	1.00	24.93
3287	C12	E64	A	220	60.197	35.736	60.942	1.00	29.49
3290	C13	E64	A	220	59.154	36.783	61.210	1.00	30.80
3293	C14	E64	A	220	58.960	37.407	59.826	1.00	32.35
3296	C15	E64	A	220	58.183	38.708	59.769	1.00	32.03
3299	N3	E64	A	220	57.963	39.165	61.131	1.00	33.36
3301	C16	E64	A	220	57.363	40.299	61.469	1.00	35.00
3302	N5	E64	A	220	57.230	40.550	62.774	1.00	34.56
3305	N4	E64	A	220	56.920	41.164	60.539	1.00	35.50
3308	N	ILE	B	1	26.179	20.401	122.831	1.00	26.31
3310	CA	ILE	B	1	27.481	21.012	123.235	1.00	25.06
3312	CB	ILE	B	1	27.757	20.715	124.726	1.00	25.63
3314	CG1	ILE	B	1	26.717	21.473	125.571	1.00	26.29
3317	CD1	ILE	B	1	26.963	22.985	125.666	1.00	27.69
3321	CG2	ILE	B	1	29.144	21.147	125.125	1.00	26.52
3325	C	ILE	B	1	28.566	20.528	122.257	1.00	23.29
3326	O	ILE	B	1	28.642	19.347	121.941	1.00	25.95
3330	N	LEU	B	2	29.283	21.468	121.656	1.00	19.32
3332	CA	LEU	B	2	30.356	21.120	120.729	1.00	16.44
3334	CB	LEU	B	2	30.248	22.003	119.482	1.00	15.52
3337	CG	LEU	B	2	28.925	21.937	118.742	1.00	15.20
3339	CD1	LEU	B	2	28.911	22.961	117.652	1.00	16.04
3343	CD2	LEU	B	2	28.681	20.533	118.197	1.00	16.50
3347	C	LEU	B	2	31.715	21.354	121.326	1.00	14.20
3348	O	LEU	B	2	31.887	22.219	122.182	1.00	13.39
3349	N	PRO	B	3	32.720	20.634	120.831	1.00	12.67
3350	CA	PRO	B	3	34.078	20.898	121.290	1.00	12.15
3352	CB	PRO	B	3	34.922	19.890	120.508	1.00	12.81
3355	CG	PRO	B	3	33.997	18.845	120.014	1.00	15.27
3358	CD	PRO	B	3	32.656	19.543	119.849	1.00	13.10
3361	C	PRO	B	3	34.521	22.320	120.970	1.00	11.96
3362	O	PRO	B	3	34.115	22.902	119.956	1.00	11.24
3363	N	ASP	B	4	35.380	22.881	121.804	1.00	11.67
3365	CA	ASP	B	4	35.906	24.204	121.564	1.00	12.03
3367	CB	ASP	B	4	36.663	24.692	122.793	1.00	12.55
3370	CG	ASP	B	4	35.754	25.094	123.902	1.00	16.27
3371	OD1	ASP	B	4	34.550	25.364	123.641	1.00	17.55
3372	OD2	ASP	B	4	36.175	25.179	125.072	1.00	19.92
3373	C	ASP	B	4	36.844	24.267	120.350	1.00	11.11
3374	O	ASP	B	4	36.999	25.309	119.726	1.00	11.94
3375	N	SER	B	5	37.503	23.159	120.069	1.00	10.88
3377	CA	SER	B	5	38.422	23.056	118.956	1.00	10.69
3379	CB	SER	B	5	39.862	23.278	119.379	1.00	12.28

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3382	OG	SER	B	5	40.030	24.483	120.073	1.00	13.59
3384	C	SER	B	5	38.326	21.671	118.351	1.00	10.39
3385	O	SER	B	5	38.131	20.682	119.048	1.00	10.09
3386	N	VAL	B	6	38.490	21.608	117.042	1.00	9.75
3388	CA	VAL	B	6	38.504	20.335	116.339	1.00	10.30
3390	CB	VAL	B	6	37.162	20.018	115.648	1.00	11.95
3392	CG1	VAL	B	6	37.172	18.668	114.950	1.00	14.73
3396	CG2	VAL	B	6	36.039	19.995	116.635	1.00	11.35
3400	C	VAL	B	6	39.609	20.393	115.293	1.00	9.19
3401	O	VAL	B	6	39.846	21.447	114.715	1.00	8.51
3402	N	ASP	B	7	40.291	19.276	115.069	1.00	9.75
3404	CA	ASP	B	7	41.268	19.192	113.994	1.00	9.60
3406	CB	ASP	B	7	42.695	19.447	114.522	1.00	9.52
3409	CG	ASP	B	7	43.746	19.537	113.411	1.00	10.94
3410	OD1	ASP	B	7	43.502	19.061	112.278	1.00	11.14
3411	OD2	ASP	B	7	44.860	20.105	113.604	1.00	13.70
3412	C	ASP	B	7	41.201	17.790	113.401	1.00	9.72
3413	O	ASP	B	7	41.672	16.814	114.013	1.00	10.06
3414	N	TRP	B	8	40.619	17.660	112.212	1.00	8.47
3416	CA	TRP	B	8	40.422	16.343	111.617	1.00	8.47
3418	CB	TRP	B	8	39.438	16.421	110.438	1.00	8.76
3421	CG	TRP	B	8	38.010	16.550	110.910	1.00	9.31
3422	CD1	TRP	B	8	37.268	17.706	111.021	1.00	8.05
3424	NE1	TRP	B	8	36.022	17.417	111.530	1.00	9.00
3426	CE2	TRP	B	8	35.943	16.076	111.776	1.00	13.39
3427	CD2	TRP	B	8	37.173	15.499	111.400	1.00	14.09
3428	CE3	TRP	B	8	37.348	14.123	111.590	1.00	18.93
3430	CZ3	TRP	B	8	36.306	13.389	112.125	1.00	21.96
3432	CH2	TRP	B	8	35.091	13.992	112.462	1.00	19.55
3434	CZ2	TRP	B	8	34.888	15.325	112.297	1.00	16.30
3436	C	TRP	B	8	41.715	15.667	111.212	1.00	8.59
3437	O	TRP	B	8	41.734	14.483	110.905	1.00	9.41
3438	N	ARG	B	9	42.798	16.418	111.194	1.00	8.31
3440	CA	ARG	B	9	44.066	15.806	110.879	1.00	9.20
3442	CB	ARG	B	9	45.133	16.865	110.690	1.00	8.81
3445	CG	ARG	B	9	44.866	17.793	109.504	1.00	9.65
3448	CD	ARG	B	9	45.809	18.931	109.353	1.00	8.75
3451	NE	ARG	B	9	45.874	19.766	110.535	1.00	8.53
3453	CZ	ARG	B	9	46.726	20.763	110.692	1.00	10.89
3454	NH1	ARG	B	9	47.558	21.110	109.709	1.00	9.82
3457	NH2	ARG	B	9	46.745	21.416	111.831	1.00	9.81
3460	C	ARG	B	9	44.457	14.843	111.991	1.00	9.40
3461	O	ARG	B	9	45.120	13.834	111.744	1.00	9.91
3462	N	GLU	B	10	44.032	15.169	113.206	1.00	10.75
3464	CA	GLU	B	10	44.342	14.390	114.392	1.00	12.72
3466	CB	GLU	B	10	43.976	15.159	115.659	1.00	12.86
3469	CG	GLU	B	10	44.908	16.267	116.030	1.00	16.15
3472	CD	GLU	B	10	44.483	16.965	117.281	1.00	18.62
3473	OE1	GLU	B	10	43.648	16.384	118.010	1.00	24.05
3474	OE2	GLU	B	10	44.974	18.080	117.521	1.00	21.53
3475	C	GLU	B	10	43.614	13.074	114.422	1.00	14.16

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3476	O	GLU	B	10	43.905	12.234	115.282	1.00	15.74
3477	N	LYS	B	11	42.609	12.943	113.537	1.00	13.88
3479	CA	LYS	B	11	41.818	11.726	113.382	1.00	15.05
3481	CB	LYS	B	11	40.324	12.048	113.324	1.00	16.00
3484	CG	LYS	B	11	39.480	10.931	113.942	1.00	21.01
3487	CD	LYS	B	11	38.022	11.096	113.640	1.00	24.23
3490	CE	LYS	B	11	37.225	9.847	114.002	1.00	24.82
3493	NZ	LYS	B	11	37.039	9.691	115.470	1.00	27.97
3497	C	LYS	B	11	42.203	10.941	112.127	1.00	14.16
3498	O	LYS	B	11	41.555	9.961	111.764	1.00	15.76
3499	N	GLY	B	12	43.235	11.376	111.420	1.00	12.26
3501	CA	GLY	B	12	43.717	10.637	110.283	1.00	12.43
3504	C	GLY	B	12	42.803	10.716	109.074	1.00	11.52
3505	O	GLY	B	12	42.854	9.844	108.202	1.00	11.94
3506	N	CYS	B	13	42.016	11.791	108.988	1.00	10.65
3508	CA	CYS	B	13	41.020	11.954	107.921	1.00	10.35
3510	CB	CYS	B	13	39.686	12.387	108.538	1.00	10.42
3513	SG	CYS	B	13	38.895	11.060	109.450	1.00	13.71
3514	C	CYS	B	13	41.383	12.965	106.860	1.00	9.86
3515	O	CYS	B	13	40.539	13.297	106.013	1.00	10.30
3516	N	VAL	B	14	42.621	13.432	106.862	1.00	8.32
3518	CA	VAL	B	14	43.035	14.460	105.930	1.00	7.80
3520	CB	VAL	B	14	43.238	15.799	106.644	1.00	7.81
3522	CG1	VAL	B	14	43.589	16.866	105.684	1.00	9.67
3526	CG2	VAL	B	14	42.006	16.211	107.388	1.00	7.81
3530	C	VAL	B	14	44.303	14.021	105.225	1.00	8.11
3531	O	VAL	B	14	45.267	13.632	105.866	1.00	8.74
3532	N	THR	B	15	44.306	14.054	103.901	1.00	8.18
3534	CA	THR	B	15	45.465	13.638	103.154	1.00	8.66
3536	CB	THR	B	15	45.065	13.204	101.736	1.00	8.73
3538	OG1	THR	B	15	44.449	14.317	101.062	1.00	9.54
3540	CG2	THR	B	15	44.049	12.116	101.773	1.00	9.61
3544	C	THR	B	15	46.505	14.757	103.058	1.00	8.98
3545	O	THR	B	15	46.308	15.876	103.544	1.00	9.62
3546	N	GLU	B	16	47.589	14.452	102.374	1.00	10.04
3548	CA	GLU	B	16	48.623	15.430	102.108	1.00	10.66
3550	CB	GLU	B	16	49.744	14.786	101.282	1.00	12.98
3553	CG	GLU	B	16	50.511	13.721	102.016	1.00	18.14
3556	CD	GLU	B	16	49.944	12.321	101.838	1.00	24.98
3557	OE1	GLU	B	16	48.842	12.170	101.225	1.00	28.47
3558	OE2	GLU	B	16	50.597	11.363	102.341	1.00	30.56
3559	C	GLU	B	16	48.060	16.600	101.308	1.00	9.92
3560	O	GLU	B	16	47.102	16.454	100.538	1.00	9.64
3561	N	VAL	B	17	48.621	17.773	101.540	1.00	9.32
3563	CA	VAL	B	17	48.275	18.963	100.791	1.00	9.51
3565	CB	VAL	B	17	48.929	20.226	101.407	1.00	9.68
3567	CG1	VAL	B	17	48.725	21.419	100.515	1.00	10.32
3571	CG2	VAL	B	17	48.346	20.472	102.794	1.00	10.05
3575	C	VAL	B	17	48.715	18.800	99.345	1.00	9.70
3576	O	VAL	B	17	49.822	18.337	99.056	1.00	11.33
3577	N	LYS	B	18	47.812	19.164	98.452	1.00	9.14

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3579	CA	LYS	B	18	48.036	19.077	97.019	1.00	9.10
3581	CB	LYS	B	18	46.792	18.510	96.317	1.00	9.82
3584	CG	LYS	B	18	46.286	17.183	96.899	1.00	9.61
3587	CD	LYS	B	18	47.394	16.156	96.995	1.00	10.77
3590	CE	LYS	B	18	46.863	14.765	97.356	1.00	10.68
3593	NZ	LYS	B	18	45.971	14.681	98.574	1.00	10.54
3597	C	LYS	B	18	48.376	20.435	96.444	1.00	9.11
3598	O	LYS	B	18	48.175	21.477	97.077	1.00	8.27
3599	N	TYR	B	18	48.913	20.392	95.237	1.00	9.99
3601	CA	TYR	B	19	49.286	21.576	94.514	1.00	11.00
3603	CB	TYR	B	19	50.784	21.553	94.275	1.00	11.58
3606	CG	TYR	B	19	51.312	22.759	93.574	1.00	14.54
3607	CD1	TYR	B	19	51.731	22.693	92.265	1.00	18.60
3609	CE1	TYR	B	19	52.240	23.816	91.622	1.00	19.12
3611	CZ	TYR	B	19	52.316	25.009	92.292	1.00	19.72
3612	OH	TYR	B	19	52.825	26.133	91.644	1.00	21.52
3614	CE2	TYR	B	19	51.898	25.081	93.598	1.00	20.90
3616	CD2	TYR	B	19	51.411	23.959	94.227	1.00	16.93
3618	C	TYR	B	19	48.530	21.641	93.192	1.00	11.25
3619	O	TYR	B	19	48.838	20.875	92.287	1.00	12.20
3620	N	GLN	B	20	47.551	22.548	93.085	1.00	10.99
3622	CA	GLN	B	20	46.764	22.697	91.854	1.00	11.56
3624	CB	GLN	B	20	45.462	23.449	92.128	1.00	11.78
3627	CG	GLN	B	20	45.634	24.886	92.479	1.00	11.89
3630	CD	GLN	B	20	44.319	25.534	92.805	1.00	14.37
3631	OE1	GLN	B	20	43.874	25.500	93.946	1.00	16.74
3632	NE2	GLN	B	20	43.682	26.130	91.804	1.00	16.06
3635	C	GLN	B	20	47.520	23.342	90.684	1.00	13.08
3636	O	GLN	B	20	47.154	23.148	89.532	1.00	13.49
3637	N	GLY	B	21	48.538	24.130	90.984	1.00	14.20
3639	CA	GLY	B	21	49.291	24.796	89.928	1.00	15.55
3642	C	GLY	B	21	48.445	25.838	89.229	1.00	16.58
3643	O	GLY	B	21	47.591	26.473	89.824	1.00	17.40
3644	N	SER	B	22	48.657	26.014	87.929	1.00	18.41
3646	CA	SER	B	22	47.926	27.050	87.216	1.00	19.92
3648	CB	SER	B	22	48.786	27.582	86.067	1.00	20.36
3651	OG	SER	B	22	49.853	28.330	86.613	1.00	26.52
3653	C	SER	B	22	46.571	26.639	86.684	1.00	19.66
3654	O	SER	B	22	46.026	27.300	85.804	1.00	22.07
3655	N	CYS	B	23	46.014	25.567	87.227	1.00	18.12
3657	CA	CYS	B	23	44.734	25.035	86.807	1.00	17.66
3659	CB	CYS	B	23	44.859	23.511	86.660	1.00	16.85
3662	SG	CYS	B	23	43.329	22.596	86.359	1.00	18.12
3663	C	CYS	B	23	43.755	25.406	87.898	1.00	16.72
3664	O	CYS	B	23	44.033	25.126	89.059	1.00	17.73
3665	N	GLY	B	24	42.641	26.041	87.529	1.00	16.59
3667	CA	GLY	B	24	41.629	26.472	88.490	1.00	15.95
3670	C	GLY	B	24	40.765	25.313	88.940	1.00	15.26
3671	O	GLY	B	24	39.559	25.273	88.674	1.00	17.01
3672	N	ALA	B	25	41.415	24.370	89.601	1.00	14.80
3674	CA	ALA	B	25	40.766	23.154	90.034	1.00	13.96

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3676	CB	ALA	B	25	41.593	21.949	89.612	1.00	14.69
3680	C	ALA	B	25	40.569	23.131	91.533	1.00	13.78
3681	O	ALA	B	25	40.438	22.075	92.087	1.00	13.20
3682	N	CYS	B	26	40.543	24.295	92.182	1.00	13.59
3684	CA	CYS	B	26	40.310	24.347	93.632	1.00	14.47
3686	CB	CYS	B	26	40.128	25.796	94.108	1.00	15.45
3689	SG	CYS	B	26	38.544	26.600	93.662	1.00	20.16
3690	C	CYS	B	26	39.055	23.578	94.036	1.00	12.35
3691	O	CYS	B	26	39.034	22.876	95.046	1.00	11.94
3692	N	TRP	B	27	38.010	23.741	93.234	1.00	11.67
3694	CA	TRP	B	27	36.712	23.125	93.479	1.00	9.93
3696	CB	TRP	B	27	35.723	23.494	92.368	1.00	10.34
3699	CG	TRP	B	27	36.153	23.127	90.992	1.00	9.14
3700	CD1	TRP	B	27	37.007	23.828	90.172	1.00	12.09
3702	NE1	TRP	B	27	37.140	23.177	88.973	1.00	11.76
3704	CE2	TRP	B	27	36.389	22.035	88.999	1.00	11.13
3705	CD2	TRP	B	27	35.756	21.977	90.258	1.00	10.11
3706	CE3	TRP	B	27	34.888	20.909	90.520	1.00	11.37
3708	CZ3	TRP	B	27	34.704	19.944	89.572	1.00	11.10
3710	CH2	TRP	B	27	35.369	20.015	88.322	1.00	10.07
3712	CZ2	TRP	B	27	36.186	21.072	88.020	1.00	10.00
3714	C	TRP	B	27	36.863	21.608	93.553	1.00	9.89
3715	O	TRP	B	27	36.200	20.960	94.352	1.00	9.28
3716	N	ALA	B	28	37.696	21.067	92.684	1.00	8.71
3718	CA	ALA	B	28	37.884	19.629	92.615	1.00	8.36
3720	CB	ALA	B	28	38.634	19.247	91.352	1.00	8.25
3724	C	ALA	B	28	38.634	19.108	93.827	1.00	8.01
3725	O	ALA	B	28	38.277	18.080	94.381	1.00	9.03
3726	N	PHE	B	29	39.649	19.855	94.247	1.00	8.26
3728	CA	PHE	B	29	40.429	19.478	95.410	1.00	7.81
3730	CB	PHE	B	29	41.688	20.315	95.512	1.00	7.75
3733	CG	PHE	B	29	42.746	19.895	94.552	1.00	9.37
3734	CD1	PHE	B	29	43.018	20.658	93.443	1.00	10.12
3736	CE1	PHE	B	29	43.989	20.270	92.559	1.00	10.86
3738	CZ	PHE	B	29	44.676	19.114	92.761	1.00	10.23
3740	CE2	PHE	B	29	44.409	18.338	93.866	1.00	9.99
3742	CD2	PHE	B	29	43.446	18.735	94.750	1.00	10.89
3744	C	PHE	B	29	39.591	19.605	96.665	1.00	7.26
3745	O	PHE	B	29	39.651	18.759	97.551	1.00	7.71
3746	N	SER	B	30	38.809	20.666	96.733	1.00	8.11
3748	CA	SER	B	30	37.921	20.831	97.878	1.00	7.44
3750	CB	SER	B	30	37.149	22.142	97.725	1.00	8.02
3753	OG	SER	B	30	36.189	22.268	98.747	1.00	8.99
3755	C	SER	B	30	36.968	19.650	97.990	1.00	7.35
3756	O	SER	B	30	36.779	19.077	99.052	1.00	7.73
3757	N	ALA	B	31	36.391	19.273	96.861	1.00	6.79
3759	CA	ALA	B	31	35.434	18.193	96.852	1.00	6.88
3761	CB	ALA	B	31	34.794	18.096	95.474	1.00	6.95
3765	C	ALA	B	31	36.093	16.873	97.239	1.00	7.15
3766	O	ALA	B	31	35.553	16.124	98.065	1.00	7.96
3767	N	VAL	B	32	37.225	16.548	96.634	1.00	7.79

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3769	CA	VAL	B	32	37.829	15.264	96.939	1.00	7.28
3771	CB	VAL	B	32	38.970	14.832	95.997	1.00	8.12
3773	CG1	VAL	B	32	38.462	14.661	94.577	1.00	10.03
3777	CG2	VAL	B	32	40.142	15.765	96.072	1.00	8.65
3781	C	VAL	B	32	38.280	15.247	98.393	1.00	7.08
3782	O	VAL	B	32	38.207	14.198	99.030	1.00	7.98
3783	N	GLY	B	33	38.746	16.377	98.907	1.00	6.99
3785	CA	GLY	B	33	39.178	16.423	100.302	1.00	6.98
3788	C	GLY	B	33	38.043	16.094	101.246	1.00	6.36
3789	O	GLY	B	33	38.182	15.354	102.220	1.00	6.80
3790	N	ALA	B	34	36.864	16.626	100.960	1.00	6.18
3792	CA	ALA	B	34	35.719	16.337	101.795	1.00	6.46
3794	CB	ALA	B	34	34.566	17.200	101.415	1.00	7.31
3798	C	ALA	B	34	35.362	14.861	101.707	1.00	6.99
3799	O	ALA	B	34	35.052	14.220	102.711	1.00	7.66
3800	N	LEU	B	35	35.390	14.309	100.506	1.00	7.18
3802	CA	LEU	B	35	35.040	12.909	100.345	1.00	6.98
3804	CB	LEU	B	35	34.741	12.596	98.869	1.00	6.57
3807	CG	LEU	B	35	34.051	11.242	98.616	1.00	7.96
3809	CD1	LEU	B	35	32.767	11.102	99.367	1.00	9.26
3813	CD2	LEU	B	35	33.818	11.071	97.119	1.00	9.94
3817	C	LEU	B	35	36.088	11.959	100.926	1.00	7.43
3818	O	LEU	B	35	35.732	10.909	101.448	1.00	9.03
3819	N	GLU	B	36	37.354	12.357	100.875	1.00	7.66
3821	CA	GLU	B	36	38.439	11.558	101.420	1.00	8.49
3823	CB	GLU	B	36	39.782	12.285	101.250	1.00	9.64
3826	CG	GLU	B	36	40.304	12.231	99.839	1.00	11.94
3829	CD	GLU	B	36	41.381	13.244	99.509	1.00	12.43
3830	OE1	GLU	B	36	41.796	14.075	100.341	1.00	11.97
3831	OE2	GLU	B	36	41.774	13.223	98.354	1.00	11.89
3832	C	GLU	B	36	38.198	11.303	102.897	1.00	8.34
3833	O	GLU	B	36	38.397	10.201	103.381	1.00	8.33
3834	N	ALA	B	37	37.742	12.325	103.613	1.00	8.11
3836	CA	ALA	B	37	37.459	12.195	105.029	1.00	7.96
3838	CB	ALA	B	37	37.136	13.535	105.613	1.00	8.55
3842	C	ALA	B	37	36.335	11.207	105.274	1.00	8.61
3843	O	ALA	B	37	36.429	10.358	106.150	1.00	9.01
3844	N	GLN	B	38	35.255	11.301	104.508	1.00	7.93
3846	CA	GLN	B	38	34.151	10.372	104.663	1.00	7.77
3848	CB	GLN	B	38	32.990	10.781	103.759	1.00	8.68
3851	CG	GLN	B	38	32.450	12.121	104.110	1.00	8.64
3854	CD	GLN	B	38	31.992	12.221	105.557	1.00	10.24
3855	OE1	GLN	B	38	31.279	11.334	106.059	1.00	11.05
3856	NE2	GLN	B	38	32.367	13.308	106.227	1.00	9.62
3859	C	GLN	B	38	34.585	8.950	104.356	1.00	8.78
3860	O	GLN	B	38	34.156	8.016	105.002	1.00	10.17
3861	N	LEU	B	39	35.445	8.786	103.372	1.00	8.57
3863	CA	LEU	B	39	35.952	7.465	103.000	1.00	9.27
3865	CB	LEU	B	39	36.815	7.561	101.737	1.00	9.86
3868	CG	LEU	B	39	37.406	6.251	101.236	1.00	11.50
3870	CD1	LEU	B	39	36.305	5.284	100.800	1.00	12.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3874	CD2	LEU	B	39	38.356	6.539	100.120	1.00	11.92
3878	C	LEU	B	39	36.723	6.868	104.167	1.00	10.55
3879	O	LEU	B	39	36.556	5.717	104.487	1.00	10.17
3880	N	LYS	B	40	37.544	7.673	104.822	1.00	10.74
3882	CA	LYS	B	40	38.277	7.203	105.991	1.00	11.40
3884	CB	LYS	B	40	39.219	8.310	106.467	1.00	11.15
3887	CG	LYS	B	40	39.948	7.973	107.784	1.00	11.85
3890	CD	LYS	B	40	40.917	6.857	107.629	1.00	13.27
3893	CE	LYS	B	40	41.569	6.576	108.974	1.00	15.75
3896	NZ	LYS	B	40	42.653	5.537	108.883	1.00	19.28
3900	C	LYS	B	40	37.328	6.810	107.118	1.00	11.94
3901	O	LYS	B	40	37.523	5.771	107.757	1.00	12.56
3902	N	LEU	B	41	36.300	7.617	107.376	1.00	12.13
3904	CA	LEU	B	41	35.345	7.315	108.445	1.00	13.93
3906	CB	LEU	B	41	34.377	8.467	108.634	1.00	14.19
3909	CG	LEU	B	41	34.983	9.719	109.258	1.00	14.84
3911	CD1	LEU	B	41	33.985	10.840	109.184	1.00	17.12
3915	CD2	LEU	B	41	35.385	9.488	110.720	1.00	17.31
3919	C	LEU	B	41	34.577	6.038	108.159	1.00	15.21
3920	O	LEU	B	41	34.275	5.253	109.088	1.00	16.21
3921	N	ALA	B	42	34.393	5.728	106.885	1.00	15.83
3923	CA	ALA	B	42	33.529	4.628	106.516	1.00	17.19
3925	CB	ALA	B	42	32.844	4.894	105.163	1.00	17.38
3929	C	ALA	B	42	34.347	3.349	106.466	1.00	17.70
3930	O	ALA	B	42	33.896	2.309	106.940	1.00	19.29
3931	N	THR	B	43	35.567	3.422	105.933	1.00	16.91
3933	CA	THR	B	43	36.348	2.220	105.653	1.00	16.81
3935	CB	THR	B	43	36.749	2.177	104.162	1.00	17.11
3937	OG1	THR	B	43	37.729	3.202	103.880	1.00	16.89
3939	CG2	THR	B	43	35.572	2.466	103.279	1.00	18.75
3943	C	THR	B	43	37.615	2.052	106.433	1.00	16.88
3944	O	THR	B	43	38.232	0.967	106.399	1.00	17.65
3945	N	GLY	B	44	38.059	3.119	107.075	1.00	15.64
3947	CA	GLY	B	44	39.303	3.112	107.806	1.00	15.52
3950	C	GLY	B	44	40.515	3.402	106.945	1.00	15.50
3951	O	GLY	B	44	41.652	3.430	107.443	1.00	17.62
3952	N	ALA	B	45	40.301	3.684	105.664	1.00	15.17
3954	CA	ALA	B	45	41.423	3.919	104.789	1.00	14.36
3956	CB	ALA	B	45	41.365	3.025	103.587	1.00	15.62
3960	C	ALA	B	45	41.501	5.368	104.343	1.00	13.15
3961	O	ALA	B	45	40.498	5.953	103.964	1.00	13.53
3962	N	LEU	B	46	42.709	5.904	104.385	1.00	12.04
3964	CA	LEU	B	46	42.968	7.265	103.947	1.00	11.39
3966	CB	LEU	B	46	43.933	7.961	104.885	1.00	10.93
3969	CG	LEU	B	46	44.127	9.445	104.559	1.00	12.26
3971	CD1	LEU	B	46	42.825	10.262	104.667	1.00	12.42
3975	CD2	LEU	B	46	45.194	10.024	105.486	1.00	13.92
3979	C	LEU	B	46	43.563	7.199	102.544	1.00	11.65
3980	O	LEU	B	46	44.690	6.734	102.344	1.00	12.63
3981	N	VAL	B	47	42.794	7.665	101.568	1.00	11.14
3983	CA	VAL	B	47	43.182	7.557	100.181	1.00	11.02

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3985	CB	VAL	B	47	42.297	6.511	99.450	1.00	11.66
3987	CG1	VAL	B	47	42.718	6.383	97.993	1.00	13.42
3991	CG2	VAL	B	47	42.360	5.192	100.152	1.00	14.64
3995	C	VAL	B	47	42.942	8.867	99.477	1.00	10.49
3996	O	VAL	B	47	41.832	9.406	99.549	1.00	11.57
3997	N	SER	B	48	43.963	9.398	98.810	1.00	8.76
3999	CA	SER	B	48	43.777	10.609	98.023	1.00	8.96
4001	CB	SER	B	48	45.091	11.208	97.561	1.00	9.94
4004	OG	SER	B	48	45.812	11.815	98.633	1.00	11.15
4006	C	SER	B	48	42.924	10.243	96.828	1.00	9.05
4007	O	SER	B	48	43.211	9.265	96.127	1.00	10.04
4008	N	LEU	B	49	41.862	11.011	96.612	1.00	8.38
4010	CA	LEU	B	49	40.940	10.763	95.494	1.00	8.52
4012	CB	LEU	B	49	39.500	10.938	95.941	1.00	8.60
4015	CG	LEU	B	49	39.103	9.978	97.050	1.00	7.65
4017	CD1	LEU	B	49	37.729	10.289	97.575	1.00	9.76
4021	CD2	LEU	B	49	39.156	8.535	96.551	1.00	9.85
4025	C	LEU	B	49	41.294	11.670	94.333	1.00	8.59
4026	O	LEU	B	49	41.989	12.669	94.477	1.00	9.68
4027	N	SER	B	50	40.858	11.287	93.151	1.00	8.31
4029	CA	SER	B	50	41.309	11.970	91.954	1.00	7.90
4031	CB	SER	B	50	41.116	11.036	90.763	1.00	8.16
4034	OG	SER	B	50	41.601	11.623	89.572	1.00	8.36
4036	C	SER	B	50	40.623	13.286	91.629	1.00	8.57
4037	O	SER	B	50	39.533	13.303	91.074	1.00	7.68
4038	N	ALA	B	51	41.302	14.379	91.921	1.00	8.03
4040	CA	ALA	B	51	40.818	15.679	91.509	1.00	8.81
4042	CB	ALA	B	51	41.695	16.793	92.049	1.00	8.95
4046	C	ALA	B	51	40.810	15.730	89.979	1.00	8.49
4047	O	ALA	B	51	39.954	16.380	89.394	1.00	8.21
4048	N	GLN	B	52	41.753	15.050	89.343	1.00	8.63
4050	CA	GLN	B	52	41.798	15.051	87.881	1.00	8.65
4052	CB	GLN	B	52	43.040	14.349	87.368	1.00	8.99
4055	CG	GLN	B	52	43.223	14.579	85.870	1.00	9.63
4058	CD	GLN	B	52	43.637	16.013	85.545	1.00	11.99
4059	OE1	GLN	B	52	44.521	16.559	86.168	1.00	12.65
4060	NE2	GLN	B	52	42.975	16.621	84.563	1.00	13.24
4063	C	GLN	B	52	40.528	14.440	87.274	1.00	9.64
4064	O	GLN	B	52	39.981	14.931	86.278	1.00	9.33
4065	N	ASN	B	53	40.041	13.362	87.860	1.00	9.11
4067	CA	ASN	B	53	38.810	12.714	87.458	1.00	9.28
4069	CB	ASN	B	53	38.573	11.590	88.462	1.00	9.31
4072	CG	ASN	B	53	37.448	10.649	88.137	1.00	9.37
4073	OD1	ASN	B	53	37.393	9.605	88.755	1.00	11.21
4074	ND2	ASN	B	53	36.506	11.012	87.280	1.00	10.32
4077	C	ASN	B	53	37.664	13.729	87.460	1.00	9.51
4078	O	ASN	B	53	36.845	13.755	86.531	1.00	9.76
4079	N	LEU	B	54	37.615	14.596	88.461	1.00	8.97
4081	CA	LEU	B	54	36.588	15.631	88.494	1.00	10.39
4083	CB	LEU	B	54	36.584	16.350	89.818	1.00	9.70
4086	CG	LEU	B	54	35.558	15.949	90.881	1.00	16.46

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4088	CD1	LEU	B	54	34.797	14.670	90.688	1.00	12.87
4092	CD2	LEU	B	54	36.061	16.166	92.304	1.00	11.64
4096	C	LEU	B	54	36.806	16.642	87.379	1.00	9.86
4097	O	LEU	B	54	35.850	16.994	86.659	1.00	10.00
4098	N	VAL	B	55	38.031	17.123	87.235	1.00	9.33
4100	CA	VAL	B	55	38.347	18.116	86.219	1.00	9.99
4102	CB	VAL	B	55	39.842	18.449	86.256	1.00	9.74
4104	CG1	VAL	B	55	40.286	19.212	85.018	1.00	11.28
4108	CG2	VAL	B	55	40.143	19.252	87.456	1.00	12.01
4112	C	VAL	B	55	37.936	17.614	84.836	1.00	10.31
4113	O	VAL	B	55	37.351	18.361	84.048	1.00	11.19
4114	N	ASP	B	56	38.246	16.360	84.549	1.00	11.19
4116	CA	ASP	B	56	38.039	15.795	83.226	1.00	11.46
4118	CB	ASP	B	56	38.933	14.576	83.041	1.00	11.64
4121	CG	ASP	B	56	40.405	14.890	83.055	1.00	13.05
4122	OD1	ASP	B	56	40.835	16.070	82.982	1.00	14.37
4123	OD2	ASP	B	56	41.248	13.962	83.109	1.00	14.70
4124	C	ASP	B	56	36.641	15.305	82.957	1.00	12.09
4125	O	ASP	B	56	36.216	15.218	81.793	1.00	13.10
4126	N	CYS	B	57	35.948	14.880	84.001	1.00	12.05
4128	CA	CYS	B	57	34.683	14.184	83.830	1.00	12.46
4130	CB	CYS	B	57	34.747	12.788	84.452	1.00	12.56
4133	SG	CYS	B	57	36.201	11.822	83.971	1.00	15.36
4134	C	CYS	B	57	33.459	14.897	84.348	1.00	12.46
4135	O	CYS	B	57	32.375	14.672	83.849	1.00	13.79
4136	N	SER	B	58	33.600	15.710	85.387	1.00	11.17
4138	CA	SER	B	58	32.498	16.478	85.911	1.00	11.43
4140	CB	SER	B	58	32.632	16.649	87.416	1.00	11.27
4143	OG	SER	B	58	31.548	17.370	87.938	1.00	11.40
4145	C	SER	B	58	32.586	17.808	85.209	1.00	11.42
4146	O	SER	B	58	33.053	18.786	85.762	1.00	11.26
4147	N	THR	B	59	32.138	17.808	83.963	1.00	11.59
4149	CA	THR	B	59	32.349	18.947	83.092	1.00	12.31
4151	CB	THR	B	59	33.063	18.484	81.838	1.00	12.81
4153	OG1	THR	B	59	32.391	17.341	81.284	1.00	14.54
4155	CG2	THR	B	59	34.500	18.021	82.177	1.00	13.07
4159	C	THR	B	59	31.061	19.698	82.764	1.00	12.11
4160	O	THR	B	59	30.321	20.052	83.650	1.00	11.59
4161	N	GLU	B	60	30.797	19.951	81.483	1.00	13.48
4163	CA	GLU	B	60	29.624	20.748	81.078	1.00	15.01
4165	CB	GLU	B	60	29.505	20.703	79.559	1.00	15.79
4168	CG	GLU	B	60	30.629	21.404	78.840	1.00	21.29
4171	CD	GLU	B	60	31.731	20.461	78.374	1.00	26.19
4172	OE1	GLU	B	60	31.930	19.394	79.001	1.00	26.04
4173	OE2	GLU	B	60	32.396	20.812	77.371	1.00	31.07
4174	C	GLU	B	60	28.254	20.394	81.660	1.00	13.56
4175	O	GLU	B	60	27.494	21.283	82.052	1.00	13.00
4176	N	ALA	B	61	28.021	19.141	81.954	1.00	13.64
4178	CA	ALA	B	61	26.702	18.677	82.295	1.00	12.46
4180	CB	ALA	B	61	26.481	17.195	82.026	1.00	14.54
4184	C	ALA	B	61	26.533	19.014	83.774	1.00	11.82

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4185	O	ALA	B	61	25.433	19.099	84.259	1.00	12.79
4186	N	TYR	B	62	27.653	19.292	84.443	1.00	10.69
4188	CA	TYR	B	62	27.659	19.640	85.855	1.00	9.57
4190	CB	TYR	B	62	28.670	18.742	86.595	1.00	8.42
4193	CG	TYR	B	62	28.178	17.325	86.563	1.00	9.60
4194	CD1	TYR	B	62	28.565	16.441	85.581	1.00	8.86
4196	CE1	TYR	B	62	28.032	15.166	85.525	1.00	9.12
4198	CZ	TYR	B	62	27.115	14.777	86.455	1.00	8.99
4199	OH	TYR	B	62	26.549	13.529	86.458	1.00	13.09
4201	CE2	TYR	B	62	26.715	15.631	87.411	1.00	8.13
4203	CD2	TYR	B	62	27.228	16.898	87.462	1.00	9.81
4205	C	TYR	B	62	27.956	21.109	86.075	1.00	9.66
4206	O	TYR	B	62	28.184	21.574	87.189	1.00	9.26
4207	N	GLY	B	63	27.934	21.865	84.979	1.00	9.48
4209	CA	GLY	B	63	28.173	23.287	85.083	1.00	10.21
4212	C	GLY	B	63	29.616	23.653	85.363	1.00	10.62
4213	O	GLY	B	63	29.908	24.813	85.655	1.00	11.37
4214	N	ASN	B	64	30.516	22.676	85.250	1.00	10.40
4216	CA	ASN	B	64	31.931	22.890	85.523	1.00	11.35
4218	CB	ASN	B	64	32.512	21.709	86.299	1.00	10.23
4221	CG	ASN	B	64	31.815	21.486	87.610	1.00	10.37
4222	OD1	ASN	B	64	31.643	20.330	88.047	1.00	12.69
4223	ND2	ASN	B	64	31.355	22.552	88.218	1.00	8.16
4226	C	ASN	B	64	32.751	23.120	84.256	1.00	12.10
4227	O	ASN	B	64	32.422	22.619	83.187	1.00	13.78
4228	N	ALA	B	65	33.859	23.829	84.423	1.00	12.86
4230	CA	ALA	B	65	34.723	24.232	83.330	1.00	13.97
4232	CB	ALA	B	65	34.706	25.762	83.207	1.00	15.21
4236	C	ALA	B	65	36.154	23.757	83.508	1.00	14.13
4237	O	ALA	B	65	37.073	24.366	82.982	1.00	15.28
4238	N	GLY	B	66	36.355	22.676	84.256	1.00	13.80
4240	CA	GLY	B	66	37.675	22.113	84.411	1.00	14.33
4243	C	GLY	B	66	38.639	23.076	85.060	1.00	14.48
4244	O	GLY	B	66	38.443	23.568	86.179	1.00	14.34
4245	N	CYS	B	67	39.715	23.369	84.349	1.00	15.50
4247	CA	CYS	B	67	40.714	24.266	84.882	1.00	16.73
4249	CB	CYS	B	67	41.991	24.179	84.063	1.00	17.47
4252	SG	CYS	B	67	42.870	22.637	84.376	1.00	21.35
4253	C	CYS	B	67	40.224	25.707	84.914	1.00	17.09
4254	O	CYS	B	67	40.927	26.591	85.382	1.00	17.41
4255	N	ASN	B	68	39.022	25.932	84.415	1.00	17.06
4257	CA	ASN	B	68	38.444	27.251	84.477	1.00	18.11
4259	CB	ASN	B	68	38.041	27.719	83.093	1.00	18.35
4262	CG	ASN	B	68	39.231	28.143	82.298	1.00	23.44
4263	OD1	ASN	B	68	39.907	29.121	82.657	1.00	27.10
4264	ND2	ASN	B	68	39.554	27.383	81.257	1.00	26.80
4267	C	ASN	B	68	37.306	27.361	85.469	1.00	17.92
4268	O	ASN	B	68	36.448	28.220	85.350	1.00	19.56
4269	N	GLY	B	69	37.318	26.500	86.470	1.00	15.88
4271	CA	GLY	B	69	36.372	26.605	87.557	1.00	14.83
4274	C	GLY	B	69	35.225	25.625	87.564	1.00	13.38

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4275	O	GLY	B	69	34.821	25.064	86.545	1.00	13.78
4276	N	GLY	B	70	34.679	25.435	88.750	1.00	11.45
4278	CA	GLY	B	70	33.568	24.535	88.917	1.00	10.88
4281	C	GLY	B	70	32.988	24.660	90.302	1.00	9.57
4282	O	GLY	B	70	33.331	25.577	91.032	1.00	11.25
4283	N	PHE	B	71	32.130	23.706	90.659	1.00	8.89
4285	CA	PHE	B	71	31.426	23.680	91.935	1.00	8.32
4287	CB	PHE	B	71	29.913	23.772	91.698	1.00	8.55
4290	CG	PHE	B	71	29.478	24.990	90.940	1.00	10.94
4291	CD1	PHE	B	71	29.187	24.916	89.605	1.00	11.01
4293	CE1	PHE	B	71	28.753	26.055	88.913	1.00	15.77
4295	CZ	PHE	B	71	28.595	27.225	89.582	1.00	16.23
4297	CE2	PHE	B	71	28.881	27.302	90.908	1.00	16.21
4299	CD2	PHE	B	71	29.309	26.173	91.590	1.00	14.41
4301	C	PHE	B	71	31.672	22.375	92.671	1.00	8.19
4302	O	PHE	B	71	31.660	21.316	92.073	1.00	8.98
4303	N	MET	B	72	31.851	22.446	93.986	1.00	7.88
4305	CA	MET	B	72	32.012	21.256	94.792	1.00	7.85
4307	CB	MET	B	72	32.459	21.596	96.209	1.00	7.97
4310	CG	MET	B	72	33.853	22.147	96.295	1.00	9.20
4313	SD	MET	B	72	34.004	23.905	95.949	1.00	10.32
4314	CE	MET	B	72	33.363	24.566	97.447	1.00	10.98
4318	C	MET	B	72	30.739	20.443	94.833	1.00	7.62
4319	O	MET	B	72	30.782	19.216	94.756	1.00	7.54
4320	N	THR	B	73	29.605	21.129	94.948	1.00	8.53
4322	CA	THR	B	73	28.343	20.412	95.022	1.00	8.73
4324	CB	THR	B	73	27.185	21.343	95.266	1.00	9.57
4326	OG1	THR	B	73	27.275	22.421	94.342	1.00	11.50
4328	CG2	THR	B	73	27.253	21.976	96.650	1.00	10.28
4332	C	THR	B	73	28.085	19.597	93.758	1.00	8.32
4333	O	THR	B	73	27.636	18.450	93.862	1.00	9.16
4334	N	THR	B	74	28.329	20.190	92.577	1.00	8.20
4336	CA	THR	B	74	28.059	19.470	91.352	1.00	8.05
4338	CB	THR	B	74	27.917	20.383	90.134	1.00	8.06
4340	OG1	THR	B	74	29.199	20.870	89.765	1.00	8.32
4342	CG2	THR	B	74	27.086	21.594	90.453	1.00	8.91
4346	C	THR	B	74	29.112	18.393	91.131	1.00	8.37
4347	O	THR	B	74	28.833	17.397	90.466	1.00	9.64
4348	N	ALA	B	75	30.321	18.591	91.665	1.00	8.05
4350	CA	ALA	B	75	31.305	17.526	91.690	1.00	8.09
4352	CB	ALA	B	75	32.620	18.006	92.247	1.00	8.30
4356	C	ALA	B	75	30.768	16.328	92.493	1.00	8.31
4357	O	ALA	B	75	30.873	15.192	92.027	1.00	8.21
4358	N	PHE	B	76	30.182	16.572	93.672	1.00	7.60
4360	CA	PHE	B	76	29.592	15.506	94.501	1.00	7.71
4362	CB	PHE	B	76	29.022	16.048	95.803	1.00	7.65
4365	CG	PHE	B	76	30.026	16.650	96.727	1.00	7.26
4366	CD1	PHE	B	76	31.284	16.079	96.914	1.00	8.91
4368	CE1	PHE	B	76	32.178	16.659	97.774	1.00	8.41
4370	CZ	PHE	B	76	31.823	17.768	98.493	1.00	7.23
4372	CE2	PHE	B	76	30.580	18.329	98.339	1.00	7.15

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4374	CD2	PHE	B	76	29.681	17.764	97.459	1.00	7.67
4376	C	PHE	B	76	28.492	14.753	93.761	1.00	8.67
4377	O	PHE	B	76	28.404	13.523	93.859	1.00	9.55
4378	N	GLN	B	77	27.618	15.517	93.076	1.00	8.33
4380	CA	GLN	B	77	26.566	14.931	92.235	1.00	7.96
4382	CB	GLN	B	77	25.585	15.978	91.691	1.00	8.51
4385	CG	GLN	B	77	24.377	15.319	91.068	1.00	8.97
4388	CD	GLN	B	77	23.543	14.582	92.087	1.00	10.92
4389	OE1	GLN	B	77	23.325	15.073	93.198	1.00	12.07
4390	NE2	GLN	B	77	23.064	13.399	91.719	1.00	11.85
4393	C	GLN	B	77	27.131	14.080	91.094	1.00	7.30
4394	O	GLN	B	77	26.573	13.022	90.799	1.00	9.51
4395	N	TYR	B	78	28.204	14.516	90.457	1.00	8.18
4397	CA	TYR	B	78	28.848	13.702	89.422	1.00	7.77
4399	CB	TYR	B	78	30.048	14.398	88.781	1.00	8.35
4402	CG	TYR	B	78	30.998	13.432	88.138	1.00	8.06
4403	CD1	TYR	B	78	30.792	12.958	86.849	1.00	10.38
4405	CE1	TYR	B	78	31.671	12.044	86.275	1.00	10.92
4407	CZ	TYR	B	78	32.756	11.573	87.004	1.00	9.98
4408	OH	TYR	B	78	33.639	10.675	86.424	1.00	11.11
4410	CE2	TYR	B	78	32.968	12.051	88.283	1.00	10.78
4412	CD2	TYR	B	78	32.091	12.949	88.834	1.00	9.09
4414	C	TYR	B	78	29.277	12.368	90.020	1.00	8.25
4415	O	TYR	B	78	29.062	11.312	89.426	1.00	8.42
4416	N	ILE	B	79	29.909	12.405	91.192	1.00	8.19
4418	CA	ILE	B	79	30.357	11.148	91.803	1.00	8.50
4420	CB	ILE	B	79	31.114	11.408	93.136	1.00	8.00
4422	CG1	ILE	B	79	32.314	12.325	92.895	1.00	9.06
4425	CD1	ILE	B	79	33.058	12.711	94.130	1.00	8.90
4429	CG2	ILE	B	79	31.602	10.109	93.745	1.00	9.03
4433	C	ILE	B	79	29.155	10.252	92.055	1.00	8.48
4434	O	ILE	B	79	29.207	9.031	91.839	1.00	9.49
4435	N	ILE	B	80	28.074	10.830	92.552	1.00	8.13
4437	CA	ILE	B	80	26.841	10.066	92.808	1.00	9.58
4439	CB	ILE	B	80	25.765	10.937	93.483	1.00	10.42
4441	CG1	ILE	B	80	26.244	11.493	94.820	1.00	10.50
4444	CD1	ILE	B	80	25.401	12.643	95.340	1.00	11.47
4448	CG2	ILE	B	80	24.461	10.156	93.722	1.00	10.69
4452	C	ILE	B	80	26.310	9.477	91.491	1.00	10.18
4453	O	ILE	B	80	26.091	8.267	91.383	1.00	11.75
4454	N	ASP	B	81	26.154	10.322	90.478	1.00	9.99
4456	CA	ASP	B	81	25.629	9.879	89.177	1.00	10.47
4458	CB	ASP	B	81	25.536	11.066	88.225	1.00	10.84
4461	CG	ASP	B	81	24.485	12.051	88.629	1.00	11.63
4462	OD1	ASP	B	81	24.498	13.178	88.045	1.00	14.19
4463	OD2	ASP	B	81	23.626	11.789	89.489	1.00	13.10
4464	C	ASP	B	81	26.519	8.846	88.521	1.00	11.15
4465	O	ASP	B	81	26.030	7.908	87.882	1.00	12.20
4466	N	ASN	B	82	27.825	9.026	88.666	1.00	10.79
4468	CA	ASN	B	82	28.826	8.200	88.021	1.00	10.42
4470	CB	ASN	B	82	30.141	8.964	87.980	1.00	10.26

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4473	CG	ASN	B	82	31.163	8.316	87.073	1.00	11.69
4474	OD1	ASN	B	82	30.895	8.082	85.874	1.00	12.68
4475	ND2	ASN	B	82	32.342	8.032	87.610	1.00	12.51
4478	C	ASN	B	82	29.063	6.887	88.748	1.00	10.42
4479	O	ASN	B	82	29.714	5.992	88.196	1.00	11.10
4480	N	LYS	B	83	28.531	6.794	89.960	1.00	10.79
4482	CA	LYS	B	83	28.691	5.655	90.855	1.00	12.12
4484	CB	LYS	B	83	28.063	4.387	90.274	1.00	13.64
4487	CG	LYS	B	83	26.592	4.558	89.929	1.00	16.00
4490	CD	LYS	B	83	25.923	3.218	89.692	1.00	21.87
4493	CE	LYS	B	83	24.466	3.356	89.234	1.00	24.58
4496	NZ	LYS	B	83	23.671	4.285	90.077	1.00	28.17
4500	C	LYS	B	83	30.147	5.427	91.228	1.00	11.97
4501	O	LYS	B	83	30.576	4.278	91.453	1.00	12.61
4502	N	GLY	B	84	30.926	6.505	91.297	1.00	10.76
4504	CA	GLY	B	84	32.289	6.392	91.755	1.00	10.12
4507	C	GLY	B	84	33.218	7.493	91.340	1.00	9.65
4508	O	GLY	B	84	32.926	8.297	90.461	1.00	10.02
4509	N	ILE	B	85	34.380	7.492	91.981	1.00	8.48
4511	CA	ILE	B	85	35.482	8.338	91.631	1.00	8.25
4513	CB	ILE	B	85	35.530	9.639	92.497	1.00	6.86
4515	CG1	ILE	B	85	36.682	10.516	92.049	1.00	8.42
4518	CD1	ILE	B	85	36.640	11.925	92.665	1.00	9.75
4522	CG2	ILE	B	85	35.623	9.294	93.977	1.00	8.15
4526	C	ILE	B	85	36.761	7.499	91.822	1.00	8.41
4527	O	ILE	B	85	36.922	6.806	92.828	1.00	9.82
4528	N	ASP	B	86	37.696	7.690	90.914	1.00	8.81
4530	CA	ASP	B	86	38.962	6.965	90.935	1.00	8.24
4532	CB	ASP	B	86	39.609	6.993	89.560	1.00	8.96
4535	CG	ASP	B	86	38.873	6.150	88.560	1.00	8.27
4536	OD1	ASP	B	86	38.150	5.188	88.950	1.00	9.46
4537	OD2	ASP	B	86	39.004	6.415	87.352	1.00	9.81
4538	C	ASP	B	86	39.918	7.526	91.979	1.00	9.50
4539	O	ASP	B	86	39.775	8.658	92.430	1.00	8.14
4540	N	SER	B	87	40.856	6.699	92.430	1.00	9.34
4542	CA	SER	B	87	41.847	7.181	93.386	1.00	10.67
4544	CB	SER	B	87	42.615	6.043	94.040	1.00	11.08
4547	OG	SER	B	87	43.430	5.536	93.057	1.00	13.75
4549	C	SER	B	87	42.812	8.114	92.635	1.00	10.27
4550	O	SER	B	87	42.974	8.046	91.370	1.00	8.88
4551	N	ASP	B	88	43.439	9.013	93.392	1.00	10.36
4553	CA	ASP	B	88	44.504	9.875	92.869	1.00	11.49
4555	CB	ASP	B	88	45.006	10.769	94.026	1.00	11.83
4558	CG	ASP	B	88	46.186	11.638	93.649	1.00	16.32
4559	OD1	ASP	B	88	45.974	12.611	92.887	1.00	20.70
4560	OD2	ASP	B	88	47.327	11.483	94.116	1.00	22.95
4561	C	ASP	B	88	45.626	9.043	92.194	1.00	10.94
4562	O	ASP	B	88	46.111	9.347	91.109	1.00	11.59
4563	N	ALA	B	89	46.027	7.965	92.842	1.00	10.32
4565	CA	ALA	B	89	47.107	7.117	92.306	1.00	10.44
4567	CB	ALA	B	89	47.426	6.043	93.323	1.00	11.26

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4571	C	ALA	B	89	46.828	6.499	90.924	1.00	11.67
4573	N	SER	B	90	45.558	6.206	90.673	1.00	10.71
4575	CA	SER	B	90	45.171	5.613	89.390	1.00	11.12
4577	CB	SER	B	90	43.904	4.782	89.559	1.00	11.37
4580	OG	SER	B	90	42.754	5.600	89.697	1.00	13.11
4582	C	SER	B	90	44.886	6.659	88.333	1.00	11.23
4583	O	SER	B	90	44.956	6.390	87.137	1.00	12.38
4584	N	TYR	B	91	44.551	7.868	88.773	1.00	11.41
4586	CA	TYR	B	91	44.112	8.915	87.850	1.00	10.61
4588	CB	TYR	B	91	42.584	8.980	87.870	1.00	9.85
4591	CG	TYR	B	91	41.910	9.681	86.733	1.00	10.08
4592	CD1	TYR	B	91	42.566	10.649	86.019	1.00	10.98
4594	CE1	TYR	B	91	41.955	11.283	84.986	1.00	10.52
4596	CZ	TYR	B	91	40.658	10.927	84.702	1.00	11.69
4597	OH	TYR	B	91	40.058	11.605	83.638	1.00	13.78
4600	CD2	TYR	B	91	40.605	9.376	86.424	1.00	10.93
4601	C	TYR	B	91	44.757	10.212	88.360	1.00	10.48
4602	O	TYR	B	91	44.107	11.049	88.957	1.00	10.15
4603	N	PRO	B	92	46.062	10.346	88.168	1.00	11.68
4604	CA	PRO	B	92	46.838	11.446	88.741	1.00	11.88
4606	CB	PRO	B	92	48.290	11.045	88.465	1.00	12.35
4609	CG	PRO	B	92	48.255	9.910	87.567	1.00	14.21
4612	CD	PRO	B	92	46.888	9.436	87.364	1.00	12.70
4615	C	PRO	B	92	46.551	12.807	88.148	1.00	11.76
4616	O	PRO	B	92	46.024	12.965	87.041	1.00	10.77
4617	N	TYR	B	93	46.898	13.810	88.931	1.00	11.47
4619	CA	TYR	B	93	46.624	15.197	88.617	1.00	11.76
4621	CB	TYR	B	93	46.532	15.984	89.910	1.00	11.22
4624	CG	TYR	B	93	46.198	17.436	89.691	1.00	10.65
4625	CD1	TYR	B	93	44.922	17.817	89.308	1.00	11.18
4627	CE1	TYR	B	93	44.609	19.127	89.115	1.00	11.70
4629	CZ	TYR	B	93	45.571	20.087	89.307	1.00	9.89
4630	OH	TYR	B	93	45.234	21.409	89.126	1.00	11.27
4632	CE2	TYR	B	93	46.849	19.733	89.676	1.00	10.31
4634	CD2	TYR	B	93	47.147	18.409	89.863	1.00	10.28
4636	C	TYR	B	93	47.691	15.796	87.725	1.00	12.10
4637	O	TYR	B	93	48.898	15.725	88.023	1.00	13.64
4638	N	LYS	B	94	47.228	16.397	86.637	1.00	13.23
4640	CA	LYS	B	94	48.100	16.918	85.603	1.00	14.76
4642	CB	LYS	B	94	47.817	16.206	84.273	1.00	16.16
4645	CG	LYS	B	94	47.968	14.679	84.325	1.00	19.21
4648	CD	LYS	B	94	49.374	14.247	84.575	1.00	23.76
4651	CE	LYS	B	94	49.509	12.722	84.524	1.00	26.95
4654	NZ	LYS	B	94	50.893	12.279	84.844	1.00	29.84
4658	C	LYS	B	94	47.964	18.427	85.420	1.00	15.08
4659	O	LYS	B	94	48.675	19.016	84.627	1.00	15.38
4660	N	ALA	B	95	47.037	19.047	86.131	1.00	15.07
4662	CA	ALA	B	95	46.877	20.507	86.071	1.00	15.34
4664	CB	ALA	B	95	48.113	21.224	86.609	1.00	15.03
4668	C	ALA	B	95	46.552	20.988	84.664	1.00	15.73
4669	O	ALA	B	95	47.050	22.018	84.205	1.00	16.56

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4670	N	MET	B	96	45.670	20.257	84.015	1.00	16.35
4672	CA	MET	B	96	45.178	20.611	82.693	1.00	17.55
4674	CB	MET	B	96	46.227	20.346	81.617	1.00	18.91
4677	CG	MET	B	96	46.512	18.893	81.356	1.00	21.90
4680	SD	MET	B	96	47.975	18.650	80.240	1.00	30.57
4681	CE	MET	B	96	48.879	20.074	80.606	1.00	27.93
4685	C	MET	B	96	43.909	19.843	82:404	1.00	17.30
4686	O	MET	B	96	43.635	18.831	83.041	1.00	17.10
4687	N	ASP	B	97	43.109	20.344	81.469	1.00	17.36
4689	CA	ASP	B	97	41.900	19.663	81.049	1.00	17.45
4691	CB	ASP	B	97	40.989	20.589	80.234	1.00	17.93
4694	CG	ASP	B	97	40.430	21.737	81.041	1.00	20.60
4695	OD1	ASP	B	97	40.298	22.834	80.458	1.00	27.70
4696	OD2	ASP	B	97	40.082	21.651	82.232	1.00	22.07
4697	C	ASP	B	97	42.291	18.490	80.177	1.00	17.57
4698	O	ASP	B	97	43.129	18.646	79.291	1.00	17.89
4699	N	GLN	B	98	41.674	17.341	80.424	1.00	17.20
4701	CA	GLN	B	98	41.887	16.113	79.638	1.00	17.41
4703	CB	GLN	B	98	42.715	15.094	80.430	1.00	17.50
4706	CG	GLN	B	98	43.968	15.638	81.018	1.00	18.00
4709	CD	GLN	B	98	44.726	14.586	81.818	1.00	19.25
4710	OE1	GLN	B	98	44.113	13.767	82.536	1.00	21.54
4711	NE2	GLN	B	98	46.047	14.603	81.713	1.00	19.05
4714	C	GLN	B	98	40.560	15.482	79.297	1.00	17.51
4715	O	GLN	B	98	39.518	15.832	79.861	1.00	17.06
4716	N	ALA	B	99	40.624	14.407	78.518	1.00	18.52
4718	CA	ALA	B	99	39.435	13.705	78.079	1.00	18.69
4720	CB	ALA	B	99	39.733	12.731	76.936	1.00	19.79
4724	C	ALA	B	99	39.056	12.920	79.307	1.00	17.88
4725	O	ALA	B	99	39.937	12.539	80.083	1.00	18.71
4726	N	CYS	B	100	37.768	12.689	79.478	1.00	18.05
4728	CA	CYS	B	100	37.291	11.862	80.555	1.00	18.44
4730	CB	CYS	B	100	35.794	11.704	80.451	1.00	18.49
4733	SG	CYS	B	100	35.170	10.501	81.619	1.00	25.88
4734	C	CYS	B	100	37.930	10.494	80.440	1.00	16.92
4735	O	CYS	B	100	37.794	9.843	79.411	1.00	16.03
4736	N	GLN	B	101	38.636	10.063	81.487	1.00	15.03
4738	CA	GLN	B	101	39.259	8.736	81.508	1.00	14.98
4740	CB	GLN	B	101	40.766	8.863	81.435	1.00	15.56
4743	CG	GLN	B	101	41.250	9.511	80.158	1.00	19.02
4746	CD	GLN	B	101	42.597	10.174	80.326	1.00	22.86
4747	OE1	GLN	B	101	42.683	11.375	80.634	1.00	27.00
4748	NE2	GLN	B	101	43.656	9.406	80.109	1.00	25.05
4751	C	GLN	B	101	38.851	7.921	82.731	1.00	13.31
4752	O	GLN	B	101	39.564	6.993	83.145	1.00	13.56
4753	N	TYR	B	102	37.707	8.243	83.308	1.00	12.42
4755	CA	TYR	B	102	37.213	7.495	84.437	1.00	11.79
4757	CB	TYR	B	102	35.847	7.976	84.888	1.00	11.62
4760	CG	TYR	B	102	35.269	7.084	85.945	1.00	10.52
4761	CD1	TYR	B	102	35.694	7.177	87.263	1.00	8.99
4763	CE1	TYR	B	102	35.189	6.364	88.212	1.00	10.14

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4765	CZ	TYR	B	102	34.237	5.430	87.894	1.00	10.37
4766	OH	TYR	B	102	33.735	4.602	88.865	1.00	11.45
4768	CE2	TYR	B	102	33.803	5.304	86.568	1.00	10.21
4770	CD2	TYR	B	102	34.338	6.116	85.623	1.00	10.30
4772	C	TYR	B	102	37.120	6.025	84.058	1.00	12.30
4773	O	TYR	B	102	36.644	5.675	82.971	1.00	13.41
4774	N	ASP	B	102	37.466	5.159	84.996	1.00	12.26
4776	CA	ASP	B	103	37.343	3.726	84.799	1.00	13.19
4778	CB	ASP	B	103	38.620	3.086	84.313	1.00	13.30
4781	CG	ASP	B	103	38.376	1.702	83.732	1.00	15.06
4782	OD1	ASP	B	103	37.634	0.916	84.344	1.00	14.48
4783	OD2	ASP	B	103	38.862	1.357	82.636	1.00	20.41
4784	C	ASP	B	103	36.930	3.166	86.119	1.00	12.83
4785	O	ASP	B	103	37.604	3.394	87.128	1.00	12.67
4786	N	SER	B	104	35.813	2.462	86.148	1.00	12.16
4788	CA	SER	B	104	35.313	1.899	87.394	1.00	11.91
4790	CB	SER	B	104	33.975	1.198	87.239	1.00	12.80
4793	OG	SER	B	104	34.087	0.078	86.362	1.00	15.16
4795	C	SER	B	104	36.309	0.918	88.003	1.00	10.68
4796	O	SER	B	104	36.242	0.642	89.178	1.00	11.66
4797	N	LYS	B	105	37.200	0.352	87.199	1.00	10.52
4799	CA	LYS	B	105	38.152	-0.601	87.777	1.00	9.41
4801	CB	LYS	B	105	38.918	-1.402	86.724	1.00	9.47
4804	CG	LYS	B	105	39.975	-0.658	86.000	1.00	8.88
4807	CD	LYS	B	105	40.513	-1.392	84.758	1.00	9.76
4810	CE	LYS	B	105	41.556	-0.617	84.028	1.00	12.01
4813	NZ	LYS	B	105	41.898	-1.250	82.689	1.00	14.12
4817	C	LYS	B	105	39.119	0.082	88.736	1.00	9.62
4818	O	LYS	B	105	39.802	-0.579	89.507	1.00	10.38
4819	N	TYR	B	106	39.158	1.411	88.702	1.00	9.13
4821	CA	TYR	B	106	40.022	2.175	89.606	1.00	9.12
4823	CB	TYR	B	106	40.890	3.149	88.822	1.00	9.76
4826	CG	TYR	B	106	41.857	2.510	87.844	1.00	11.14
4827	CD1	TYR	B	106	42.042	3.044	86.599	1.00	13.82
4829	CE1	TYR	B	106	42.950	2.497	85.715	1.00	14.78
4831	CZ	TYR	B	106	43.669	1.378	86.083	1.00	14.11
4832	OH	TYR	B	106	44.569	0.849	85.181	1.00	15.45
4834	CE2	TYR	B	106	43.514	0.840	87.331	1.00	11.85
4836	CD2	TYR	B	106	42.620	1.416	88.206	1.00	11.84
4838	C	TYR	B	106	39.219	2.930	90.672	1.00	8.87
4839	O	TYR	B	106	39.768	3.794	91.367	1.00	9.98
4840	N	ARG	B	107	37.974	2.568	90.816	1.00	9.03
4842	CA	ARG	B	107	37.108	3.209	91.798	1.00	9.75
4844	CB	ARG	B	107	35.693	2.701	91.701	1.00	9.91
4847	CG	ARG	B	107	34.747	3.363	92.657	1.00	12.62
4850	CD	ARG	B	107	33.522	2.547	92.909	1.00	19.23
4853	NE	ARG	B	107	32.776	2.354	91.678	1.00	24.16
4855	CZ	ARG	B	107	32.387	1.179	91.184	1.00	27.02
4856	NH1	ARG	B	107	32.672	0.042	91.812	1.00	29.58
4859	NH2	ARG	B	107	31.701	1.147	90.044	1.00	26.59
4862	C	ARG	B	107	37.612	3.038	93.232	1.00	10.74

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4863	O	ARG	B	107	37.843	1.928	93.727	1.00	11.98
4864	N	ALA	B	108	37.640	4.189	93.913	1.00	10.07
4866	CA	ALA	B	108	38.161	4.235	95.262	1.00	9.59
4868	CB	ALA	B	108	39.413	5.099	95.354	1.00	10.32
4872	C	ALA	B	108	37.144	4.749	96.223	1.00	10.28
4873	O	ALA	B	108	37.313	4.577	97.422	1.00	11.26
4874	N	ALA	B	109	36.100	5.412	95.729	1.00	9.38
4876	CA	ALA	B	109	35.076	5.936	96.605	1.00	9.81
4878	CB	ALA	B	109	35.465	7.306	97.176	1.00	9.71
4882	C	ALA	B	109	33.789	6.086	95.842	1.00	9.71
4883	O	ALA	B	109	33.783	6.144	94.627	1.00	10.32
4884	N	THR	B	110	32.712	6.159	96.584	1.00	10.66
4886	CA	THR	B	110	31.389	6.453	96.067	1.00	10.67
4888	CB	THR	B	110	30.460	5.222	96.148	1.00	10.94
4890	OG1	THR	B	110	30.335	4.782	97.511	1.00	12.67
4892	CG2	THR	B	110	31.034	4.065	95.373	1.00	13.43
4896	C	THR	B	110	30.824	7.563	96.935	1.00	11.09
4897	O	THR	B	110	31.383	7.921	97.967	1.00	11.60
4898	N	CYS	B	111	29.692	8.100	96.517	1.00	10.92
4900	CA	CYS	B	111	29.008	9.135	97.252	1.00	11.36
4902	CB	CYS	B	111	29.373	10.502	96.669	1.00	11.52
4905	SG	CYS	B	111	28.553	11.887	97.471	1.00	13.44
4906	C	CYS	B	111	27.526	8.854	97.097	1.00	11.23
4907	O	CYS	B	111	27.074	8.525	95.999	1.00	12.59
4908	N	SER	B	112	26.786	8.984	98.176	1.00	11.62
4910	CA	SER	B	112	25.355	8.738	98.146	1.00	12.40
4912	CB	SER	B	112	24.909	7.880	99.329	1.00	13.35
4915	OG	SER	B	112	25.244	8.454	100.556	1.00	16.39
4917	C	SER	B	112	24.533	10.000	98.102	1.00	12.99
4918	O	SER	B	112	23.396	9.979	97.620	1.00	13.14
4919	N	LYS	B	113	25.073	11.089	98.632	1.00	12.21
4921	CA	LYS	B	113	24.354	12.339	98.727	1.00	11.85
4923	CB	LYS	B	113	23.177	12.234	99.679	1.00	14.07
4926	CG	LYS	B	113	23.524	11.993	101.102	1.00	16.04
4929	CD	LYS	B	113	22.268	11.758	101.936	1.00	22.21
4932	CE	LYS	B	113	22.298	12.578	103.200	1.00	25.39
4935	NZ	LYS	B	113	21.136	12.292	104.118	1.00	28.97
4939	C	LYS	B	113	25.318	13.400	99.200	1.00	10.85
4940	O	LYS	B	113	26.452	13.103	99.578	1.00	9.67
4941	N	TYR	B	114	24.881	14.644	99.141	1.00	9.74
4943	CA	TYR	B	114	25.632	15.729	99.717	1.00	9.20
4945	CB	TYR	B	114	26.498	16.460	98.688	1.00	9.03
4948	CG	TYR	B	114	25.722	17.150	97.586	1.00	9.02
4949	CD1	TYR	B	114	25.374	18.469	97.703	1.00	9.78
4951	CE1	TYR	B	114	24.658	19.115	96.724	1.00	11.36
4953	CZ	TYR	B	114	24.290	18.412	95.609	1.00	12.32
4954	OH	TYR	B	114	23.582	19.066	94.611	1.00	11.27
4956	CE2	TYR	B	114	24.630	17.087	95.464	1.00	10.92
4958	CD2	TYR	B	114	25.357	16.463	96.441	1.00	10.80
4960	C	TYR	B	114	24.631	16.673	100.355	1.00	9.78
4961	O	TYR	B	114	23.429	16.669	100.019	1.00	10.01

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4962	N	THR	B	115	25.137	17.493	101.263	1.00	9.47
4964	CA	THR	B	115	24.338	18.448	102.013	1.00	10.15
4966	CB	THR	B	115	24.358	18.026	103.476	1.00	11.73
4968	OG1	THR	B	115	23.731	16.745	103.599	1.00	13.04
4970	CG2	THR	B	115	23.525	18.954	104.329	1.00	12.40
4974	C	THR	B	115	24.947	19.830	101.870	1.00	10.79
4975	O	THR	B	115	26.155	20.007	102.061	1.00	10.14
4976	N	GLU	B	116	24.113	20.798	101.525	1.00	9.82
4978	CA	GLU	B	116	24.519	22.180	101.481	1.00	10.23
4980	CB	GLU	B	116	23.907	22.873	100.274	1.00	11.18
4983	CG	GLU	B	116	24.367	22.294	98.971	1.00	15.71
4986	CD	GLU	B	116	23.742	22.967	97.767	1.00	22.02
4987	OE1	GLU	B	116	23.888	24.203	97.601	1.00	27.03
4988	OE2	GLU	B	116	23.108	22.248	96.977	1.00	23.03
4989	C	GLU	B	116	24.032	22.852	102.731	1.00	10.08
4990	O	GLU	B	116	22.843	22.805	103.059	1.00	11.84
4991	N	LEU	B	117	24.931	23.519	103.430	1.00	9.65
4993	CA	LEU	B	117	24.555	24.196	104.650	1.00	9.76
4995	CB	LEU	B	117	25.770	24.415	105.529	1.00	10.35
4998	CG	LEU	B	117	26.404	23.137	106.050	1.00	12.53
5000	CD1	LEU	B	117	27.481	23.557	107.064	1.00	13.35
5004	CD2	LEU	B	117	25.441	22.136	106.633	1.00	16.89
5008	C	LEU	B	117	23.927	25.550	104.325	1.00	10.33
5009	O	LEU	B	117	24.167	26.124	103.261	1.00	10.92
5010	N	PRO	B	118	23.147	26.085	105.254	1.00	10.89
5011	CA	PRO	B	118	22.458	27.352	105.014	1.00	11.46
5013	CB	PRO	B	118	21.554	27.492	106.216	1.00	11.62
5016	CG	PRO	B	118	22.188	26.672	107.286	1.00	13.14
5019	CD	PRO	B	118	22.914	25.585	106.616	1.00	12.06
5022	C	PRO	B	118	23.438	28.504	104.909	1.00	10.68
5023	O	PRO	B	118	24.467	28.589	105.586	1.00	10.88
5024	N	TYR	B	119	23.103	29.435	104.048	1.00	10.04
5026	CA	TYR	B	119	23.979	30.534	103.756	1.00	9.17
5028	CB	TYR	B	119	23.325	31.469	102.737	1.00	9.53
5031	CG	TYR	B	119	24.209	32.609	102.374	1.00	7.93
5032	CD1	TYR	B	119	25.113	32.514	101.332	1.00	8.54
5034	CE1	TYR	B	119	25.956	33.550	101.045	1.00	8.85
5036	CZ	TYR	B	119	25.908	34.717	101.765	1.00	8.67
5037	OH	TYR	B	119	26.797	35.740	101.450	1.00	11.29
5039	CE2	TYR	B	119	25.040	34.834	102.809	1.00	8.95
5041	CD2	TYR	B	119	24.189	33.792	103.102	1.00	8.19
5043	C	TYR	B	119	24.386	31.373	104.975	1.00	9.00
5044	O	TYR	B	119	23.564	31.914	105.701	1.00	9.23
5045	N	GLY	B	120	25.694	31.503	105.137	1.00	9.56
5047	CA	GLY	B	120	26.285	32.366	106.112	1.00	10.15
5050	C	GLY	B	120	26.228	31.973	107.550	1.00	11.00
5051	O	GLY	B	120	26.550	32.826	108.366	1.00	12.83
5052	N	ARG	B	121	25.939	30.723	107.884	1.00	10.72
5054	CA	ARG	B	121	25.665	30.371	109.273	1.00	11.15
5056	CB	ARG	B	121	24.384	29.579	109.457	1.00	12.58
5059	CG	ARG	B	121	23.151	30.424	109.170	1.00	15.83

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5062	CD	ARG	B	121	22.612	31.062	110.488	1.00	20.35
5065	NE	ARG	B	121	21.987	30.006	111.303	1.00	26.34
5067	CZ	ARG	B	121	21.907	29.941	112.624	1.00	26.96
5068	NH1	ARG	B	121	22.430	30.880	113.409	1.00	30.93
5071	NH2	ARG	B	121	21.280	28.901	113.164	1.00	28.58
5074	C	ARG	B	121	26.879	29.641	109.820	1.00	10.93
5075	O	ARG	B	121	27.060	28.455	109.663	1.00	11.09
5076	N	GLU	B	122	27.645	30.376	110.596	1.00	10.69
5078	CA	GLU	B	122	28.952	29.897	111.020	1.00	10.41
5080	CB	GLU	B	122	29.917	30.998	111.441	1.00	9.85
5083	CG	GLU	B	122	30.465	31.810	110.294	1.00	10.85
5086	CD	GLU	B	122	31.599	32.716	110.697	1.00	11.35
5087	OE1	GLU	B	122	32.768	32.278	110.775	1.00	11.61
5088	OE2	GLU	B	122	31.276	33.892	110.906	1.00	13.37
5089	C	GLU	B	122	28.715	28.927	112.150	1.00	10.45
5090	O	GLU	B	122	29.513	28.017	112.323	1.00	10.51
5091	N	ASP	B	123	27.610	29.080	112.893	1.00	10.44
5093	CA	ASP	B	123	27.278	28.115	113.952	1.00	10.75
5095	CB	ASP	B	123	26.162	28.626	114.884	1.00	11.31
5098	CG	ASP	B	123	24.956	29.190	114.135	1.00	14.84
5099	OD1	ASP	B	123	23.952	29.544	114.817	1.00	20.72
5100	OD2	ASP	B	123	24.882	29.336	112.882	1.00	14.73
5101	C	ASP	B	123	26.933	26.751	113.351	1.00	10.27
5102	O	ASP	B	123	27.321	25.710	113.883	1.00	10.55
5103	N	VAL	B	124	26.208	26.752	112.232	1.00	9.28
5105	CA	VAL	B	124	25.859	25.509	111.557	1.00	9.51
5107	CB	VAL	B	124	24.762	25.693	110.510	1.00	9.52
5109	CG1	VAL	B	124	24.458	24.400	109.819	1.00	10.41
5113	CG2	VAL	B	124	23.510	26.282	111.175	1.00	10.94
5117	C	VAL	B	124	27.113	24.878	110.957	1.00	8.40
5118	O	VAL	B	124	27.284	23.673	110.990	1.00	9.46
5119	N	LEU	B	125	28.010	25.707	110.453	1.00	8.87
5121	CA	LEU	B	125	29.261	25.200	109.909	1.00	8.13
5123	CB	LEU	B	125	30.013	26.319	109.209	1.00	8.65
5126	CG	LEU	B	125	31.356	25.908	108.620	1.00	7.69
5128	CD1	LEU	B	125	31.221	24.784	107.616	1.00	8.06
5132	CD2	LEU	B	125	32.010	27.077	107.992	1.00	8.99
5136	C	LEU	B	125	30.112	24.551	111.008	1.00	8.15
5137	O	LEU	B	125	30.668	23.498	110.824	1.00	7.43
5138	N	LYS	B	126	29.993	25.033	112.224	1.00	9.04
5140	CA	LYS	B	126	30.818	24.615	113.360	1.00	8.87
5142	CB	LYS	B	126	30.698	25.573	114.545	1.00	8.48
5145	CG	LYS	B	126	31.720	25.344	115.619	1.00	9.52
5148	CD	LYS	B	126	31.299	25.927	116.941	1.00	10.52
5151	CE	LYS	B	126	32.310	25.640	118.040	1.00	12.18
5154	NZ	LYS	B	126	31.891	26.221	119.337	1.00	13.54
5158	C	LYS	B	126	30.296	23.257	113.771	1.00	9.93
5159	O	LYS	B	126	31.044	22.312	113.958	1.00	8.70
5160	N	GLU	B	127	28.999	23.069	113.637	1.00	9.98
5162	CA	GLU	B	127	28.343	21.873	114.104	1.00	10.72
5164	CB	GLU	B	127	26.815	22.038	114.188	1.00	11.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5167	CG	GLU	B	127	26.133	20.796	114.744	1.00	14.85
5170	CD	GLU	B	127	24.633	20.983	114.889	1.00	22.12
5171	OE1	GLU	B	127	23.873	20.276	114.198	1.00	30.96
5172	OE2	GLU	B	127	24.216	21.834	115.698	1.00	30.51
5173	C	GLU	B	127	28.675	20.790	113.087	1.00	9.86
5174	O	GLU	B	127	28.946	19.628	113.434	1.00	9.90
5175	N	ALA	B	128	28.676	21.150	111.803	1.00	9.24
5177	CA	ALA	B	128	29.002	20.187	110.767	1.00	8.77
5179	CB	ALA	B	128	28.716	20.776	109.392	1.00	9.81
5183	C	ALA	B	128	30.463	19.724	110.862	1.00	8.18
5184	O	ALA	B	128	30.778	18.546	110.695	1.00	8.99
5185	N	VAL	B	129	31.357	20.670	111.061	1.00	8.13
5187	CA	VAL	B	129	32.752	20.307	111.207	1.00	8.78
5189	CB	VAL	B	129	33.654	21.544	111.241	1.00	8.18
5191	CG1	VAL	B	129	35.086	21.141	111.491	1.00	10.14
5195	CG2	VAL	B	129	33.537	22.343	109.925	1.00	9.95
5199	C	VAL	B	129	32.962	19.420	112.439	1.00	9.42
5200	O	VAL	B	129	33.706	18.455	112.382	1.00	10.59
5201	N	ALA	B	130	32.279	19.715	113.535	1.00	9.53
5203	CA	ALA	B	130	32.446	18.941	114.773	1.00	10.31
5205	CB	ALA	B	130	31.743	19.666	115.935	1.00	10.22
5209	C	ALA	B	130	31.884	17.520	114.660	1.00	11.48
5210	O	ALA	B	130	32.446	16.565	115.195	1.00	13.85
5211	N	ASN	B	131	30.744	17.402	113.974	1.00	11.81
5213	CA	ASN	B	131	29.947	16.167	113.977	1.00	12.74
5215	CB	ASN	B	131	28.507	16.459	114.379	1.00	13.40
5218	CG	ASN	B	131	28.391	16.955	115.795	1.00	14.96
5219	OD1	ASN	B	131	29.236	16.647	116.619	1.00	20.90
5220	ND2	ASN	B	131	27.359	17.743	116.082	1.00	19.85
5223	C	ASN	B	131	29.909	15.357	112.699	1.00	13.26
5224	O	ASN	B	131	29.599	14.158	112.741	1.00	15.74
5225	N	LYS	B	132	30.181	15.994	111.562	1.00	11.33
5227	CA	LYS	B	132	30.092	15.320	110.272	1.00	10.96
5229	CB	LYS	B	132	29.182	16.101	109.323	1.00	11.23
5232	CG	LYS	B	132	27.821	16.322	109.878	1.00	14.86
5235	CD	LYS	B	132	27.083	14.999	110.018	1.00	19.95
5238	CE	LYS	B	132	25.624	15.220	110.354	1.00	22.43
5241	NZ	LYS	B	132	24.842	13.943	110.245	1.00	25.65
5245	C	LYS	B	132	31.455	15.063	109.645	1.00	10.68
5246	O	LYS	B	132	31.714	13.963	109.163	1.00	11.64
5247	N	GLY	B	133	32.325	16.065	109.638	1.00	9.74
5249	CA	GLY	B	133	33.635	15.942	109.049	1.00	9.35
5252	C	GLY	B	133	34.040	17.241	108.387	1.00	8.28
5253	O	GLY	B	133	33.356	18.245	108.521	1.00	8.75
5254	N	PRO	B	134	35.169	17.223	107.692	1.00	7.92
5255	CA	PRO	B	134	35.584	18.380	106.903	1.00	7.00
5257	CB	PRO	B	134	36.828	17.879	106.194	1.00	7.70
5260	CG	PRO	B	134	37.360	16.860	107.148	1.00	8.79
5263	CD	PRO	B	134	36.160	16.151	107.625	1.00	8.19
5266	C	PRO	B	134	34.508	18.799	105.908	1.00	7.17
5267	O	PRO	B	134	33.807	17.955	105.352	1.00	8.23

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5268	N	VAL	B	135	34.416	20.100	105.715	1.00	6.17
5270	CA	VAL	B	135	33.385	20.695	104.894	1.00	6.28
5272	CB	VAL	B	135	32.455	21.573	105.771	1.00	6.46
5274	CG1	VAL	B	135	31.419	22.302	104.956	1.00	7.39
5278	CG2	VAL	B	135	31.792	20.716	106.866	1.00	6.98
5282	C	VAL	B	135	34.005	21.518	103.777	1.00	6.20
5283	O	VAL	B	135	34.898	22.335	103.990	1.00	7.03
5284	N	SER	B	136	33.510	21.296	102.580	1.00	6.73
5286	CA	SER	B	136	33.946	22.080	101.443	1.00	6.36
5288	CB	SER	B	136	33.485	21.421	100.151	1.00	6.23
5291	OG	SER	B	136	34.087	20.176	99.924	1.00	8.76
5293	C	SER	B	136	33.317	23.450	101.509	1.00	6.66
5294	O	SER	B	136	32.136	23.584	101.749	1.00	7.48
5295	N	VAL	B	136	34.114	24.483	101.314	1.00	6.15
5297	CA	VAL	B	137	33.587	25.844	101.358	1.00	6.50
5299	CB	VAL	B	137	33.878	26.552	102.725	1.00	6.83
5301	CG1	VAL	B	137	33.245	25.821	103.877	1.00	8.00
5305	CG2	VAL	B	137	35.362	26.671	102.940	1.00	8.64
5309	C	VAL	B	137	34.273	26.650	100.275	1.00	7.02
5310	O	VAL	B	137	35.319	26.276	99.730	1.00	7.34
5311	N	GLY	B	138	33.650	27.763	99.944	1.00	7.52
5313	CA	GLY	B	138	34.285	28.757	99.114	1.00	7.15
5316	C	GLY	B	138	34.701	29.952	99.928	1.00	9.04
5317	O	GLY	B	138	34.040	30.318	100.896	1.00	9.03
5318	N	VAL	B	139	35.799	30.577	99.520	1.00	7.47
5320	CA	VAL	B	139	36.242	31.787	100.162	1.00	9.05
5322	CB	VAL	B	139	37.464	31.583	101.093	1.00	9.17
5324	CG1	VAL	B	139	37.077	30.671	102.220	1.00	9.47
5328	CG2	VAL	B	139	38.696	31.043	100.357	1.00	8.11
5332	C	VAL	B	139	36.573	32.819	99.150	1.00	8.77
5333	O	VAL	B	139	36.881	32.499	98.004	1.00	9.48
5334	N	ASP	B	140	36.518	34.073	99.567	1.00	9.97
5336	CA	ASP	B	140	37.026	35.178	98.760	1.00	10.54
5338	CB	ASP	B	140	36.393	36.476	99.249	1.00	10.83
5341	CG	ASP	B	140	36.949	37.700	98.570	1.00	14.11
5342	OD1	ASP	B	140	37.762	37.557	97.637	1.00	13.49
5343	OD2	ASP	B	140	36.600	38.846	98.903	1.00	15.62
5344	C	ASP	B	140	38.535	35.217	98.949	1.00	11.52
5345	O	ASP	B	140	39.022	35.614	100.003	1.00	11.69
5346	N	ALA	B	141	39.264	34.747	97.939	1.00	12.09
5348	CA	ALA	B	141	40.721	34.706	97.981	1.00	12.78
5350	CB	ALA	B	141	41.207	33.297	97.667	1.00	13.40
5354	C	ALA	B	141	41.319	35.671	96.985	1.00	13.87
5355	O	ALA	B	141	42.426	35.467	96.505	1.00	14.51
5356	N	LYS	B	142	40.737	36.837	96.854	1.00	14.99
5358	CA	LYS	B	142	41.063	37.713	95.713	1.00	16.31
5360	CB	LYS	B	142	39.836	38.370	95.093	1.00	17.07
5363	CG	LYS	B	142	38.989	37.436	94.228	1.00	20.76
5366	CD	LYS	B	142	38.135	38.210	93.228	1.00	24.19
5369	CE	LYS	B	142	36.825	38.589	93.829	1.00	26.69
5372	NZ	LYS	B	142	35.976	37.446	94.259	1.00	26.99

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5376	C	LYS	B	142	42.046	38.762	96.187	1.00	16.96
5377	O	LYS	B	142	42.658	39.480	95.379	1.00	20.53
5378	N	HIS	B	143	42.287	38.815	97.477	1.00	14.88
5380	CA	HIS	B	143	43.092	39.890	98.036	1.00	14.46
5382	CB	HIS	B	143	42.464	40.356	99.343	1.00	15.50
5385	CG	HIS	B	143	41.007	40.603	99.192	1.00	15.75
5386	ND1	HIS	B	143	40.506	41.776	98.672	1.00	18.10
5388	CE1	HIS	B	143	39.192	41.686	98.584	1.00	20.19
5390	NE2	HIS	B	143	38.830	40.484	98.991	1.00	18.79
5392	CD2	HIS	B	143	39.944	39.786	99.367	1.00	18.55
5394	C	HIS	B	143	44.539	39.455	98.175	1.00	13.69
5395	O	HIS	B	143	44.845	38.313	98.455	1.00	12.93
5396	N	PRO	B	144	45.466	40.356	97.907	1.00	13.23
5397	CA	PRO	B	144	46.879	39.998	97.972	1.00	12.65
5399	CB	PRO	B	144	47.582	41.344	97.740	1.00	13.88
5402	CG	PRO	B	144	46.509	42.387	97.847	1.00	15.37
5405	CD	PRO	B	144	45.257	41.746	97.469	1.00	13.32
5408	C	PRO	B	144	47.254	39.364	99.319	1.00	11.62
5409	O	PRO	B	144	48.103	38.501	99.347	1.00	12.09
5410	N	SER	B	145	46.608	39.785	100.402	1.00	11.24
5412	CA	SER	B	145	46.877	39.236	101.726	1.00	10.46
5414	CB	SER	B	145	45.997	39.909	102.761	1.00	11.01
5417	OG	SER	B	145	44.640	39.765	102.420	1.00	11.77
5419	C	SER	B	145	46.692	37.713	101.784	1.00	10.39
5420	O	SER	B	145	47.364	37.050	102.541	1.00	10.75
5421	N	PHE	B	146	45.758	37.185	101.009	1.00	9.85
5423	CA	PHE	B	146	45.532	35.754	100.990	1.00	9.97
5425	CB	PHE	B	146	44.247	35.432	100.264	1.00	9.49
5428	CG	PHE	B	146	43.818	34.011	100.413	1.00	9.57
5429	CD1	PHE	B	146	44.314	33.032	99.579	1.00	10.99
5431	CE1	PHE	B	146	43.923	31.728	99.749	1.00	12.44
5433	CZ	PHE	B	146	43.027	31.413	100.721	1.00	10.41
5435	CE2	PHE	B	146	42.524	32.372	101.545	1.00	11.02
5437	CD2	PHE	B	146	42.914	33.659	101.397	1.00	12.00
5439	C	PHE	B	146	46.742	35.055	100.370	1.00	10.60
5440	O	PHE	B	146	47.263	34.087	100.898	1.00	10.44
5441	N	PHE	B	147	47.214	35.574	99.247	1.00	11.47
5443	CA	PHE	B	147	48.356	34.992	98.574	1.00	11.39
5445	CB	PHE	B	147	48.621	35.696	97.249	1.00	11.64
5448	CG	PHE	B	147	47.608	35.399	96.200	1.00	10.84
5449	CD1	PHE	B	147	47.849	34.451	95.228	1.00	10.86
5451	CE1	PHE	B	147	46.904	34.176	94.274	1.00	10.08
5453	CZ	PHE	B	147	45.706	34.820	94.301	1.00	11.86
5455	CE2	PHE	B	147	45.466	35.760	95.250	1.00	12.59
5457	CD2	PHE	B	147	46.387	36.033	96.201	1.00	12.51
5459	C	PHE	B	147	49.601	35.107	99.427	1.00	11.66
5460	O	PHE	B	147	50.477	34.242	99.354	1.00	13.04
5461	N	LEU	B	148	49.688	36.178	100.195	1.00	10.78
5463	CA	LEU	B	148	50.870	36.472	100.987	1.00	11.88
5465	CB	LEU	B	148	51.093	37.983	101.057	1.00	12.57
5468	CG	LEU	B	148	51.343	38.603	99.700	1.00	14.42

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5470	CD1	LEU	B	148	51.317	40.125	99.797	1.00	16.61
5474	CD2	LEU	B	148	52.648	38.114	99.127	1.00	15.72
5478	C	LEU	B	148	50.809	35.909	102.388	1.00	11.97
5479	O	LEU	B	148	51.755	36.043	103.150	1.00	13.07
5480	N	TYR	B	149	49.691	35.285	102.744	1.00	11.31
5482	CA	TYR	B	149	49.543	34.719	104.080	1.00	10.51
5484	CB	TYR	B	149	48.211	34.014	104.166	1.00	9.45
5487	CG	TYR	B	149	48.024	33.227	105.423	1.00	8.58
5488	CD1	TYR	B	149	48.279	31.870	105.448	1.00	7.97
5490	CE1	TYR	B	149	48.125	31.145	106.592	1.00	9.23
5492	CZ	TYR	B	149	47.666	31.746	107.738	1.00	8.37
5493	OH	TYR	B	149	47.462	30.982	108.828	1.00	9.21
5495	CE2	TYR	B	149	47.377	33.094	107.741	1.00	8.94
5497	CD2	TYR	B	149	47.587	33.824	106.590	1.00	8.72
5499	C	TYR	B	149	50.631	33.742	104.475	1.00	11.02
5500	O	TYR	B	149	50.974	32.838	103.710	1.00	11.67
5501	N	ARG	B	150	51.128	33.914	105.695	1.00	12.05
5503	CA	ARG	B	150	52.128	33.018	106.229	1.00	13.10
5505	CB	ARG	B	150	53.404	33.808	106.523	1.00	13.66
5508	CG	ARG	B	150	54.060	34.285	105.259	1.00	16.66
5511	CD	ARG	B	150	54.488	33.128	104.369	1.00	23.21
5514	NE	ARG	B	150	55.714	32.515	104.877	1.00	27.93
5516	CZ	ARG	B	150	56.329	31.476	104.330	1.00	34.05
5517	NH1	ARG	B	150	57.473	31.030	104.846	1.00	36.85
5520	NH2	ARG	B	150	55.799	30.871	103.274	1.00	36.34
5523	C	ARG	B	150	51.725	32.280	107.469	1.00	13.08
5524	O	ARG	B	150	52.000	31.086	107.595	1.00	13.40
5525	N	SER	B	151	51.115	32.975	108.416	1.00	12.69
5527	CA	SER	B	151	50.807	32.340	109.684	1.00	13.15
5529	CB	SER	B	151	52.087	32.213	110.514	1.00	14.45
5532	OG	SER	B	151	52.525	33.494	110.887	1.00	17.66
5534	C	SER	B	151	49.794	33.132	110.463	1.00	12.22
5535	O	SER	B	151	49.538	34.307	110.166	1.00	13.35
5536	N	GLY	B	152	49.212	32.479	111.462	1.00	11.61
5538	CA	GLY	B	152	48.263	33.130	112.342	1.00	11.64
5541	C	GLY	B	152	46.856	33.143	111.797	1.00	11.53
5542	O	GLY	B	152	46.522	32.417	110.857	1.00	12.06
5543	N	VAL	B	153	46.021	33.989	112.380	1.00	10.63
5545	CA	VAL	B	153	44.619	34.030	111.976	1.00	10.56
5547	CB	VAL	B	153	43.672	34.242	113.135	1.00	11.08
5549	CG1	VAL	B	153	42.225	34.346	112.641	1.00	10.84
5553	CG2	VAL	B	153	43.822	33.132	114.163	1.00	11.34
5557	C	VAL	B	153	44.450	35.094	110.923	1.00	11.19
5558	O	VAL	B	153	44.689	36.288	111.161	1.00	13.43
5559	N	TYR	B	154	44.037	34.663	109.747	1.00	9.55
5561	CA	TYR	B	154	43.839	35.570	108.645	1.00	9.45
5563	CB	TYR	B	154	43.704	34.759	107.358	1.00	8.66
5566	CG	TYR	B	154	43.493	35.564	106.104	1.00	9.70
5567	CD1	TYR	B	154	44.526	36.256	105.541	1.00	8.14
5569	CE1	TYR	B	154	44.361	36.975	104.395	1.00	8.81
5571	CZ	TYR	B	154	43.149	36.989	103.775	1.00	8.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5572	OH	TYR	B	154	42.961	37.724	102.626	1.00	9.19
5574	CE2	TYR	B	154	42.091	36.314	104.333	1.00	8.29
5576	CD2	TYR	B	154	42.276	35.594	105.476	1.00	8.68
5578	C	TYR	B	154	42.595	36.397	108.795	1.00	9.48
5579	O	TYR	B	154	41.493	35.882	108.941	1.00	9.95
5580	N	TYR	B	155	42.761	37.702	108.614	1.00	10.50
5582	CA	TYR	B	155	41.625	38.614	108.679	1.00	11.82
5584	CB	TYR	B	155	41.266	39.027	110.118	1.00	12.51
5587	CG	TYR	B	155	40.133	40.009	110.202	1.00	14.71
5588	CD1	TYR	B	155	38.830	39.598	110.413	1.00	16.28
5590	CE1	TYR	B	155	37.794	40.507	110.488	1.00	18.67
5592	CZ	TYR	B	155	38.064	41.839	110.395	1.00	21.95
5593	OH	TYR	B	155	37.008	42.742	110.468	1.00	24.21
5595	CE2	TYR	B	155	39.353	42.273	110.213	1.00	21.50
5597	CD2	TYR	B	155	40.384	41.356	110.127	1.00	19.87
5599	C	TYR	B	155	41.940	39.761	107.719	1.00	12.04
5600	O	TYR	B	155	42.983	40.419	107.805	1.00	13.44
5601	N	GLU	B	156	41.092	39.938	106.732	1.00	11.56
5603	CA	GLU	B	156	41.306	40.933	105.733	1.00	12.76
5605	CB	GLU	B	156	41.418	40.198	104.405	1.00	13.09
5608	CG	GLU	B	156	41.430	41.087	103.182	1.00	14.67
5611	CD	GLU	B	156	42.419	42.227	103.270	1.00	17.56
5612	OE1	GLU	B	156	41.941	43.387	103.365	1.00	18.67
5613	OE2	GLU	B	156	43.663	41.996	103.238	1.00	17.06
5614	C	GLU	B	156	40.131	41.880	105.702	1.00	13.27
5615	O	GLU	B	156	39.052	41.505	105.253	1.00	12.29
5616	N	PRO	B	157	40.323	43.106	106.169	1.00	14.16
5617	CA	PRO	B	157	39.229	44.083	106.177	1.00	15.60
5619	CB	PRO	B	157	39.927	45.383	106.589	1.00	15.91
5622	CG	PRO	B	157	41.119	44.942	107.424	1.00	15.73
5625	CD	PRO	B	157	41.541	43.619	106.819	1.00	15.55
5628	C	PRO	B	157	38.506	44.269	104.833	1.00	15.84
5629	O	PRO	B	157	37.341	44.642	104.829	1.00	17.36
5630	N	SER	B	158	39.183	44.036	103.713	1.00	15.22
5632	CA	SER	B	158	38.588	44.209	102.390	1.00	16.32
5634	CB	SER	B	158	39.673	44.606	101.389	1.00	17.36
5637	OG	SER	B	158	40.076	45.965	101.564	1.00	20.95
5639	C	SER	B	158	37.858	42.953	101.888	1.00	15.52
5640	O	SER	B	158	37.275	42.957	100.806	1.00	15.55
5641	N	CYS	B	159	37.903	41.874	102.654	1.00	15.43
5643	CA	CYS	B	159	37.241	40.643	102.240	1.00	15.62
5645	CB	CYS	B	159	37.495	39.505	103.227	1.00	15.41
5648	SG	CYS	B	159	38.336	38.143	102.397	1.00	20.02
5649	C	CYS	B	159	35.747	40.829	102.095	1.00	16.39
5650	O	CYS	B	159	35.158	41.671	102.743	1.00	17.26
5651	N	THR	B	160	35.147	40.023	101.236	1.00	16.17
5653	CA	THR	B	160	33.710	40.088	101.033	1.00	16.60
5655	CB	THR	B	160	33.390	40.690	99.679	1.00	17.48
5657	OG1	THR	B	160	33.791	39.783	98.630	1.00	18.28
5659	CG2	THR	B	160	34.203	41.973	99.470	1.00	19.79
5663	C	THR	B	160	33.153	38.704	101.090	1.00	16.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5664	O	THR	B	160	33.886	37.757	101.277	1.00	14.66
5665	N	GLN	B	161	31.841	38.556	100.937	1.00	16.68
5667	CA	GLN	B	161	31.359	37.188	100.913	1.00	18.21
5669	CB	GLN	B	161	30.220	36.852	101.886	1.00	19.79
5672	CG	GLN	B	161	29.445	37.876	102.466	1.00	20.69
5675	CD	GLN	B	161	30.197	38.882	103.330	1.00	17.61
5676	OE1	GLN	B	161	30.912	38.573	104.303	1.00	22.35
5677	NE2	GLN	B	161	29.999	40.105	102.985	1.00	13.41
5680	C	GLN	B	161	31.098	36.680	99.513	1.00	18.73
5681	O	GLN	B	161	30.415	35.662	99.355	1.00	20.53
5682	N	ASN	B	162	31.712	37.315	98.521	1.00	18.63
5684	CA	ASN	B	162	31.624	36.834	97.142	1.00	19.19
5686	CB	ASN	B	162	31.425	37.981	96.186	1.00	20.60
5689	CG	ASN	B	162	29.934	38.268	95.967	1.00	21.63
5690	OD1	ASN	B	162	29.153	37.387	95.506	1.00	26.69
5691	ND2	ASN	B	162	29.521	39.442	96.343	1.00	24.94
5694	C	ASN	B	162	32.829	35.916	96.889	1.00	17.43
5695	O	ASN	B	162	33.991	36.354	96.749	1.00	19.14
5696	N	VAL	B	163	32.529	34.628	96.932	1.00	14.34
5698	CA	VAL	B	163	33.564	33.615	96.996	1.00	12.85
5700	CB	VAL	B	163	33.121	32.387	97.834	1.00	12.66
5702	CG1	VAL	B	163	32.704	32.826	99.240	1.00	13.58
5706	CG2	VAL	B	163	32.015	31.638	97.180	1.00	14.06
5710	C	VAL	B	163	34.054	33.163	95.633	1.00	11.50
5711	O	VAL	B	163	33.267	33.099	94.671	1.00	12.03
5712	N	ASN	B	164	35.344	32.854	95.537	1.00	10.09
5714	CA	ASN	B	164	35.910	32.452	94.256	1.00	10.38
5716	CB	ASN	B	164	36.623	33.630	93.587	1.00	11.24
5719	CG	ASN	B	164	37.948	33.936	94.216	1.00	13.93
5720	OD1	ASN	B	164	38.037	34.064	95.411	1.00	12.67
5721	ND2	ASN	B	164	39.012	33.972	93.409	1.00	18.85
5724	C	ASN	B	164	36.883	31.330	94.347	1.00	9.44
5725	O	ASN	B	164	37.464	30.937	93.337	1.00	12.04
5726	N	HIS	B	165	37.093	30.781	95.537	1.00	8.88
5728	CA	HIS	B	165	38.139	29.774	95.683	1.00	8.02
5730	CB	HIS	B	165	39.384	30.461	96.240	1.00	8.65
5733	CG	HIS	B	165	40.550	29.555	96.422	1.00	10.78
5734	ND1	HIS	B	165	41.083	28.824	95.382	1.00	15.76
5736	CE1	HIS	B	165	42.105	28.112	95.830	1.00	15.67
5738	NE2	HIS	B	165	42.270	28.386	97.108	1.00	12.26
5740	CD2	HIS	B	165	41.302	29.275	97.507	1.00	12.81
5742	C	HIS	B	165	37.690	28.678	96.639	1.00	8.33
5743	O	HIS	B	165	37.384	28.941	97.786	1.00	9.64
5744	N	GLY	B	166	37.634	27.468	96.148	1.00	7.46
5746	CA	GLY	B	166	37.223	26.334	96.935	1.00	7.29
5749	C	GLY	B	166	38.328	25.793	97.794	1.00	7.51
5750	O	GLY	B	166	39.429	25.578	97.330	1.00	9.21
5751	N	VAL	B	167	38.019	25.567	99.064	1.00	7.37
5753	CA	VAL	B	167	38.962	25.031	100.054	1.00	6.65
5755	CB	VAL	B	167	39.612	26.132	100.887	1.00	6.93
5757	CG1	VAL	B	167	40.495	27.016	99.966	1.00	9.91

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5761	CG2	VAL	B	167	38.556	26.939	101.587	1.00	7.95
5765	C	VAL	B	167	38.202	24.093	100.971	1.00	6.60
5766	O	VAL	B	167	37.018	23.823	100.786	1.00	6.50
5767	N	LEU	B	168	38.900	23.550	101.965	1.00	6.10
5769	CA	LEU	B	168	38.294	22.550	102.832	1.00	5.61
5771	CB	LEU	B	168	38.965	21.199	102.588	1.00	6.00
5774	CG	LEU	B	168	38.386	20.031	103.353	1.00	7.01
5776	CD1	LEU	B	168	37.010	19.680	102.806	1.00	6.78
5780	CD2	LEU	B	168	39.311	18.834	103.260	1.00	8.35
5784	C	LEU	B	168	38.495	22.949	104.279	1.00	6.09
5785	O	LEU	B	168	39.620	23.139	104.711	1.00	6.83
5786	N	VAL	B	169	37.405	23.045	105.029	1.00	5.80
5788	CA	VAL	B	169	37.516	23.346	106.430	1.00	6.41
5790	CB	VAL	B	169	36.251	24.017	106.967	1.00	6.62
5792	CG1	VAL	B	169	36.382	24.204	108.459	1.00	6.69
5796	CG2	VAL	B	169	36.030	25.347	106.282	1.00	8.01
5800	C	VAL	B	169	37.725	22.013	107.127	1.00	6.07
5801	O	VAL	B	169	36.856	21.154	107.098	1.00	7.50
5802	N	VAL	B	170	38.866	21.868	107.798	1.00	6.18
5804	CA	VAL	B	170	39.194	20.622	108.477	1.00	6.52
5806	CB	VAL	B	170	40.532	20.020	107.999	1.00	6.54
5808	CG1	VAL	B	170	40.450	19.666	106.514	1.00	7.17
5812	CG2	VAL	B	170	41.680	20.954	108.264	1.00	8.62
5816	C	VAL	B	170	39.239	20.772	109.965	1.00	7.13
5817	O	VAL	B	170	39.633	19.833	110.659	1.00	8.39
5818	N	GLY	B	171	38.838	21.919	110.474	1.00	6.69
5820	CA	GLY	B	171	38.777	22.104	111.907	1.00	7.58
5823	C	GLY	B	171	38.482	23.530	112.268	1.00	7.72
5824	O	GLY	B	171	38.166	24.370	111.426	1.00	7.68
5825	N	TYR	B	172	38.570	23.814	113.565	1.00	7.68
5827	CA	TYR	B	172	38.370	25.154	114.064	1.00	7.26
5829	CB	TYR	B	172	36.888	25.512	114.111	1.00	7.75
5832	CG	TYR	B	172	36.026	24.639	114.994	1.00	7.71
5833	CD1	TYR	B	172	36.006	24.803	116.371	1.00	9.26
5835	CE1	TYR	B	172	35.219	24.048	117.154	1.00	8.67
5837	CZ	TYR	B	172	34.430	23.091	116.610	1.00	8.96
5838	OH	TYR	B	172	33.602	22.308	117.380	1.00	9.71
5840	CE2	TYR	B	172	34.398	22.903	115.248	1.00	10.07
5842	CD2	TYR	B	172	35.194	23.680	114.446	1.00	7.92
5844	C	TYR	B	172	39.018	25.224	115.451	1.00	7.92
5845	O	TYR	B	172	39.287	24.204	116.065	1.00	8.32
5846	N	GLY	B	173	39.221	26.429	115.953	1.00	9.22
5848	CA	GLY	B	173	39.844	26.612	117.239	1.00	9.98
5851	C	GLY	B	173	39.966	28.090	117.494	1.00	11.46
5852	O	GLY	B	173	39.221	28.906	116.938	1.00	9.65
5853	N	ASP	B	174	40.891	28.427	118.377	1.00	12.30
5855	CA	ASP	B	174	41.140	29.786	118.778	1.00	14.56
5857	CB	ASP	B	174	40.384	30.097	120.055	1.00	14.89
5860	CG	ASP	B	174	40.640	29.054	121.154	1.00	21.20
5861	OD1	ASP	B	174	41.804	28.938	121.609	1.00	33.99
5862	OD2	ASP	B	174	39.759	28.307	121.633	1.00	30.54

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5863	C	ASP	B	174	42.635	29.920	119.011	1.00	15.12
5864	O	ASP	B	174	43.322	28.961	119.420	1.00	16.70
5865	N	LEU	B	175	43.113	31.111	118.691	1.00	15.94
5867	CA	LEU	B	175	44.498	31.482	118.885	1.00	17.52
5869	CB	LEU	B	175	45.238	31.552	117.541	1.00	17.42
5872	CG	LEU	B	175	46.692	32.017	117.658	1.00	19.48
5874	CD1	LEU	B	175	47.503	31.068	118.496	1.00	21.56
5878	CD2	LEU	B	175	47.342	32.214	116.290	1.00	20.43
5882	C	LEU	B	175	44.559	32.817	119.624	1.00	19.18
5883	O	LEU	B	175	44.303	33.876	119.048	1.00	20.27
5884	N	ASN	B	176	44.842	32.764	120.918	1.00	23.16
5886	CA	ASN	B	176	44.989	34.008	121.695	1.00	24.79
5888	CB	ASN	B	176	46.379	34.566	121.530	1.00	25.89
5891	CG	ASN	B	176	47.334	33.645	122.178	1.00	27.62
5892	OD1	ASN	B	176	46.924	32.910	123.060	1.00	32.87
5893	ND2	ASN	B	176	48.497	33.536	121.755	1.00	30.87
5896	C	ASN	B	176	43.837	34.985	121.530	1.00	24.96
5897	O	ASN	B	176	43.987	36.180	121.202	1.00	26.41
5898	N	GLY	B	177	42.676	34.405	121.806	1.00	25.21
5900	CA	GLY	B	177	41.387	35.062	121.759	1.00	23.98
5903	C	GLY	B	177	40.844	35.281	120.355	1.00	23.03
5904	O	GLY	B	177	39.887	36.038	120.164	1.00	24.16
5905	N	ALA	B	178	41.471	34.674	119.353	1.00	19.96
5907	CA	ALA	B	178	41.022	34.887	118.000	1.00	17.59
5909	CB	ALA	B	178	42.127	35.443	117.148	1.00	17.70
5913	C	ALA	B	178	40.550	33.567	117.430	1.00	13.89
5914	O	ALA	B	178	41.357	32.701	117.138	1.00	12.51
5915	N	GLU	B	179	39.238	33.448	117.242	1.00	12.04
5917	CA	GLU	B	179	38.643	32.230	116.758	1.00	10.60
5919	CB	GLU	B	179	37.142	32.246	116.980	1.00	12.11
5922	CG	GLU	B	179	36.786	32.332	118.460	1.00	15.19
5925	CD	GLU	B	179	35.312	32.201	118.720	1.00	19.64
5926	OE1	GLU	B	179	34.924	31.215	119.384	1.00	22.49
5927	OE2	GLU	B	179	34.557	33.109	118.294	1.00	23.85
5928	C	GLU	B	179	38.979	32.072	115.290	1.00	9.89
5929	O	GLU	B	179	39.051	33.055	114.529	1.00	9.14
5930	N	TYR	B	180	39.159	30.827	114.881	1.00	8.60
5932	CA	TYR	B	180	39.541	30.563	113.504	1.00	8.61
5934	CB	TYR	B	180	41.088	30.438	113.373	1.00	9.24
5937	CG	TYR	B	180	41.744	29.268	114.136	1.00	9.54
5938	CD1	TYR	B	180	41.738	27.984	113.626	1.00	8.66
5940	CE1	TYR	B	180	42.332	26.893	114.330	1.00	13.71
5942	CZ	TYR	B	180	43.027	27.102	115.546	1.00	16.98
5943	OH	TYR	B	180	43.597	26.048	116.253	1.00	22.27
5945	CE2	TYR	B	180	43.014	28.369	116.092	1.00	15.79
5947	CD2	TYR	B	180	42.413	29.456	115.380	1.00	12.99
5949	C	TYR	B	180	38.898	29.291	112.974	1.00	7.75
5950	O	TYR	B	180	38.476	28.430	113.724	1.00	7.96
5951	N	TRP	B	181	38.818	29.229	111.638	1.00	7.07
5953	CA	TRP	B	181	38.552	28.027	110.878	1.00	7.09
5955	CB	TRP	B	181	37.713	28.364	109.645	1.00	6.52

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5958	CG	TRP	B	181	36.353	28.817	109.990	1.00	6.60
5959	CD1	TRP	B	181	35.843	30.076	109.831	1.00	6.36
5961	NE1	TRP	B	181	34.534	30.111	110.240	1.00	7.27
5963	CE2	TRP	B	181	34.174	28.874	110.690	1.00	7.07
5964	CD2	TRP	B	181	35.291	28.026	110.533	1.00	6.65
5965	CE3	TRP	B	181	35.179	26.706	110.944	1.00	8.43
5967	CZ3	TRP	B	181	33.971	26.281	111.484	1.00	7.11
5969	CH2	TRP	B	181	32.899	27.134	111.603	1.00	8.05
5971	CZ2	TRP	B	181	32.975	28.429	111.235	1.00	6.73
5973	C	TRP	B	181	39.889	27.515	110.372	1.00	6.50
5974	O	TRP	B	181	40.695	28.286	109.884	1.00	6.99
5975	N	LEU	B	182	40.122	26.220	110.481	1.00	5.89
5977	CA	LEU	B	182	41.347	25.596	109.970	1.00	6.62
5979	CB	LEU	B	182	41.769	24.413	110.831	1.00	7.19
5982	CG	LEU	B	182	43.012	23.658	110.369	1.00	9.61
5984	CD1	LEU	B	182	44.194	24.571	110.280	1.00	10.31
5988	CD2	LEU	B	182	43.274	22.508	111.308	1.00	10.51
5992	C	LEU	B	182	41.073	25.129	108.553	1.00	6.29
5993	O	LEU	B	182	40.240	24.239	108.353	1.00	6.93
5994	N	VAL	B	183	41.755	25.745	107.587	1.00	6.45
5996	CA	VAL	B	183	41.461	25.502	106.180	1.00	7.13
5998	CB	VAL	B	183	41.122	26.826	105.515	1.00	6.74
6000	CG1	VAL	B	183	40.953	26.682	104.013	1.00	9.42
6004	CG2	VAL	B	183	39.868	27.455	106.177	1.00	8.63
6008	C	VAL	B	183	42.611	24.885	105.434	1.00	6.75
6009	O	VAL	B	183	43.731	25.390	105.512	1.00	7.21
6010	N	LYS	B	184	42.320	23.791	104.743	1.00	6.74
6012	CA	LYS	B	184	43.269	23.118	103.881	1.00	6.51
6014	CB	LYS	B	184	42.967	21.630	103.809	1.00	6.94
6017	CG	LYS	B	184	44.015	20.831	103.053	1.00	8.30
6020	CD	LYS	B	184	43.559	19.421	102.814	1.00	9.04
6023	CE	LYS	B	184	44.704	18.562	102.306	1.00	8.99
6026	NZ	LYS	B	184	44.202	17.289	101.712	1.00	11.07
6030	C	LYS	B	184	43.131	23.728	102.483	1.00	7.54
6031	O	LYS	B	184	42.067	23.700	101.914	1.00	6.69
6032	N	ASN	B	185	44.198	24.287	101.964	1.00	7.67
6034	CA	ASN	B	185	44.210	24.840	100.617	1.00	8.28
6036	CB	ASN	B	185	44.973	26.163	100.637	1.00	8.39
6039	CG	ASN	B	185	44.698	27.061	99.448	1.00	9.11
6040	OD1	ASN	B	185	43.876	26.756	98.600	1.00	11.82
6041	ND2	ASN	B	185	45.441	28.163	99.367	1.00	11.45
6044	C	ASN	B	185	44.857	23.821	99.690	1.00	8.32
6045	O	ASN	B	185	45.294	22.778	100.121	1.00	9.99
6046	N	SER	B	186	44.867	24.125	98.400	1.00	7.52
6048	CA	SER	B	186	45.478	23.269	97.397	1.00	7.63
6050	CB	SER	B	186	44.422	22.693	96.460	1.00	8.31
6053	OG	SER	B	186	43.592	23.694	95.916	1.00	10.44
6055	C	SER	B	186	46.508	24.055	96.599	1.00	8.21
6056	O	SER	B	186	46.619	23.897	95.363	1.00	9.13
6057	N	TRP	B	187	47.271	24.882	97.308	1.00	7.49
6059	CA	TRP	B	187	48.358	25.657	96.726	1.00	8.01

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6061	CB	TRP	B	187	48.211	27.120	97.145	1.00	8.80
6064	CG	TRP	B	187	47.116	27.865	96.436	1.00	8.97
6065	CD1	TRP	B	187	46.265	27.392	95.470	1.00	11.08
6067	NE1	TRP	B	187	45.420	28.394	95.053	1.00	13.79
6069	CE2	TRP	B	187	45.706	29.534	95.755	1.00	13.15
6070	CD2	TRP	B	187	46.767	29.234	96.631	1.00	10.02
6071	CE3	TRP	B	187	47.215	30.237	97.498	1.00	12.13
6073	CZ3	TRP	B	187	46.639	31.477	97.415	1.00	12.53
6075	CH2	TRP	B	187	45.610	31.740	96.536	1.00	12.01
6077	CZ2	TRP	B	187	45.115	30.783	95.705	1.00	14.46
6079	C	TRP	B	187	49.721	25.099	97.128	1.00	9.54
6080	O	TRP	B	187	50.727	25.799	97.128	1.00	10.61
6081	N	GLY	B	188	49.744	23.825	97.486	1.00	9.77
6083	CA	GLY	B	188	50.979	23.166	97.862	1.00	10.92
6086	C	GLY	B	188	51.372	23.383	99.292	1.00	12.23
6087	O	GLY	B	188	50.809	24.218	100.004	1.00	11.00
6088	N	HIS	B	189	52.382	22.640	99.711	1.00	14.93
6090	CA	HIS	B	189	52.794	22.664	101.101	1.00	17.52
6092	CB	HIS	B	189	53.572	21.393	101.459	1.00	19.26
6095	CG	HIS	B	189	54.838	21.226	100.689	1.00	23.21
6096	ND1	HIS	B	189	55.016	20.221	99.766	1.00	30.10
6098	CE1	HIS	B	189	56.228	20.315	99.250	1.00	29.61
6100	NE2	HIS	B	189	56.840	21.345	99.804	1.00	30.15
6102	CD2	HIS	B	189	55.991	21.931	100.710	1.00	27.77
6104	C	HIS	B	189	53.567	23.901	101.498	1.00	18.56
6105	O	HIS	B	189	53.820	24.081	102.692	1.00	20.82
6106	N	ASN	B	190	53.961	24.742	100.544	1.00	18.78
6108	CA	ASN	B	190	54.701	25.967	100.867	1.00	19.85
6110	CB	ASN	B	190	55.752	26.306	99.802	1.00	20.99
6113	CG	ASN	B	190	56.821	25.234	99.679	1.00	24.70
6114	OD1	ASN	B	190	57.206	24.849	98.572	1.00	30.00
6115	ND2	ASN	B	190	57.288	24.733	100.811	1.00	26.39
6118	C	ASN	B	190	53.799	27.161	101.116	1.00	18.84
6119	O	ASN	B	190	54.261	28.220	101.555	1.00	21.45
6120	N	PHE	B	191	52.507	27.008	100.849	1.00	15.51
6122	CA	PHE	B	191	51.591	28.107	101.082	1.00	13.39
6124	CB	PHE	B	191	50.313	27.926	100.282	1.00	12.97
6127	CG	PHE	B	191	49.208	28.833	100.724	1.00	11.32
6128	CD1	PHE	B	191	48.234	28.374	101.569	1.00	12.24
6130	CE1	PHE	B	191	47.208	29.226	102.002	1.00	13.55
6132	CZ	PHE	B	191	47.199	30.528	101.583	1.00	14.09
6134	CE2	PHE	B	191	48.155	31.001	100.765	1.00	15.47
6136	CD2	PHE	B	191	49.182	30.170	100.333	1.00	15.53
6138	C	PHE	B	191	51.209	28.174	102.548	1.00	12.51
6139	O	PHE	B	191	50.906	27.158	103.153	1.00	11.67
6140	N	GLY	B	192	51.198	29.373	103.116	1.00	11.05
6142	CA	GLY	B	192	50.723	29.537	104.475	1.00	10.23
6145	C	GLY	B	192	51.400	28.648	105.478	1.00	10.04
6146	O	GLY	B	192	52.622	28.553	105.517	1.00	10.71
6147	N	GLU	B	193	50.588	28.022	106.324	1.00	9.21
6149	CA	GLU	B	193	51.080	27.161	107.376	1.00	9.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6151	CB	GLU	B	193	50.161	27.254	108.603	1.00	9.93
6154	CG	GLU	B	193	50.163	28.648	109.212	1.00	10.46
6157	CD	GLU	B	193	49.321	28.814	110.460	1.00	13.61
6158	OE1	GLU	B	193	48.270	28.150	110.584	1.00	13.90
6159	OE2	GLU	B	193	49.687	29.663	111.305	1.00	13.61
6160	C	GLU	B	193	51.185	25.756	106.827	1.00	9.07
6161	O	GLU	B	193	50.346	24.883	107.066	1.00	8.71
6162	N	GLU	B	194	52.206	25.558	106.017	1.00	9.53
6164	CA	GLU	B	194	52.458	24.261	105.396	1.00	9.76
6166	CB	GLU	B	194	53.031	23.286	106.397	1.00	10.77
6169	CG	GLU	B	194	54.425	23.745	106.795	1.00	13.32
6172	CD	GLU	B	194	54.995	22.943	107.934	1.00	16.94
6173	OE1	GLU	B	194	55.872	22.095	107.676	1.00	20.88
6174	OE2	GLU	B	194	54.556	23.160	109.083	1.00	20.48
6175	C	GLU	B	194	51.240	23.722	104.677	1.00	9.20
6176	O	GLU	B	194	50.919	22.535	104.744	1.00	10.36
6177	N	GLY	B	195	50.587	24.614	103.954	1.00	8.73
6179	CA	GLY	B	195	49.467	24.271	103.107	1.00	8.32
6182	C	GLY	B	195	48.120	24.678	103.638	1.00	7.58
6183	O	GLY	B	195	47.118	24.600	102.914	1.00	8.18
6184	N	TYR	B	196	48.093	25.126	104.890	1.00	7.53
6186	CA	TYR	B	196	46.878	25.464	105.599	1.00	8.13
6188	CB	TYR	B	196	46.843	24.700	106.932	1.00	7.32
6191	CG	TYR	B	196	46.661	23.229	106.695	1.00	7.26
6192	CD1	TYR	B	196	47.734	22.424	106.339	1.00	5.84
6194	CE1	TYR	B	196	47.565	21.078	106.107	1.00	6.72
6196	CZ	TYR	B	196	46.298	20.546	106.163	1.00	6.85
6197	OH	TYR	B	196	46.093	19.210	105.922	1.00	9.01
6199	CE2	TYR	B	196	45.231	21.325	106.539	1.00	7.15
6201	CD2	TYR	B	196	45.403	22.642	106.797	1.00	8.02
6203	C	TYR	B	196	46.811	26.930	105.881	1.00	7.40
6204	O	TYR	B	196	47.825	27.630	105.903	1.00	7.75
6205	N	ILE	B	197	45.595	27.410	106.115	1.00	6.80
6207	CA	ILE	B	197	45.395	28.791	106.499	1.00	6.47
6209	CB	ILE	B	197	45.033	29.727	105.303	1.00	6.64
6211	CG1	ILE	B	197	44.677	31.125	105.786	1.00	6.46
6214	CD1	ILE	B	197	44.552	32.110	104.681	1.00	9.47
6218	CG2	ILE	B	197	43.888	29.162	104.494	1.00	8.38
6222	C	ILE	B	197	44.356	28.798	107.581	1.00	7.58
6223	O	ILE	B	197	43.362	28.102	107.504	1.00	8.26
6224	N	ARG	B	198	44.599	29.549	108.639	1.00	7.17
6226	CA	ARG	B	198	43.602	29.693	109.687	1.00	7.14
6228	CB	ARG	B	198	44.288	29.670	111.050	1.00	8.16
6231	CG	ARG	B	198	44.727	28.302	111.416	1.00	9.63
6234	CD	ARG	B	198	45.306	28.125	112.769	1.00	11.17
6237	NE	ARG	B	198	46.603	28.731	112.890	1.00	13.37
6239	CZ	ARG	B	198	47.314	28.674	113.998	1.00	18.33
6240	NH1	ARG	B	198	46.871	27.970	115.042	1.00	22.48
6243	NH2	ARG	B	198	48.514	29.260	114.043	1.00	17.78
6246	C	ARG	B	198	42.881	31.006	109.402	1.00	8.08
6247	O	ARG	B	198	43.505	32.042	109.276	1.00	9.33

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6248	N	MET	B	199	41.582	30.936	109.175	1.00	7.33
6250	CA	MET	B	199	40.792	32.082	108.759	1.00	7.98
6252	CB	MET	B	199	40.034	31.726	107.487	1.00	8.23
6255	CG	MET	B	199	40.942	31.351	106.346	1.00	10.02
6258	SD	MET	B	199	40.132	31.141	104.757	1.00	11.68
6259	CE	MET	B	199	39.516	32.850	104.490	1.00	11.24
6263	C	MET	B	199	39.818	32.505	109.821	1.00	7.71
6264	O	MET	B	199	39.229	31.676	110.508	1.00	8.46
6265	N	ALA	B	200	39.632	33.806	109.955	1.00	7.99
6267	CA	ALA	B	200	38.822	34.326	111.041	1.00	7.95
6269	CB	ALA	B	200	38.722	35.831	110.954	1.00	8.38
6273	C	ALA	B	200	37.438	33.726	111.098	1.00	8.08
6274	O	ALA	B	200	36.748	33.645	110.092	1.00	8.33
6275	N	ARG	B	201	37.043	33.311	112.297	1.00	7.98
6277	CA	ARG	B	201	35.764	32.674	112.577	1.00	7.48
6279	CB	ARG	B	201	35.990	31.306	113.221	1.00	8.59
6282	CG	ARG	B	201	34.793	30.534	113.621	1.00	7.84
6285	CD	ARG	B	201	35.111	29.079	113.972	1.00	8.20
6288	NE	ARG	B	201	35.940	28.882	115.149	1.00	8.24
6290	CZ	ARG	B	201	35.476	28.700	116.372	1.00	10.90
6291	NH1	ARG	B	201	34.184	28.683	116.604	1.00	11.14
6294	NH2	ARG	B	201	36.341	28.510	117.335	1.00	9.17
6297	C	ARG	B	201	34.945	33.577	113.493	1.00	9.02
6298	O	ARG	B	201	35.491	34.271	114.362	1.00	10.06
6299	N	ASN	B	201	33.641	33.529	113.293	1.00	9.73
6301	CA	ASN	B	202	32.703	34.336	114.066	1.00	10.02
6303	CB	ASN	B	202	32.626	33.888	115.554	1.00	10.89
6306	CG	ASN	B	202	32.101	32.453	115.704	1.00	14.32
6307	OD1	ASN	B	202	31.303	32.014	114.895	1.00	18.88
6308	ND2	ASN	B	202	32.539	31.729	116.726	1.00	16.87
6311	C	ASN	B	202	32.979	35.817	113.899	1.00	10.95
6312	O	ASN	B	202	32.809	36.594	114.843	1.00	12.12
6313	N	LYS	B	203	33.398	36.204	112.692	1.00	10.42
6315	CA	LYS	B	203	33.651	37.587	112.334	1.00	11.19
6317	CB	LYS	B	203	35.135	37.834	112.084	1.00	12.43
6320	CG	LYS	B	203	35.975	37.653	113.336	1.00	15.15
6323	CD	LYS	B	203	35.945	38.858	114.265	1.00	18.00
6326	CE	LYS	B	203	36.601	38.516	115.606	1.00	21.86
6329	NZ	LYS	B	203	36.870	39.722	116.429	1.00	24.73
6333	C	LYS	B	203	32.793	37.985	111.120	1.00	10.43
6334	O	LYS	B	203	33.280	38.536	110.140	1.00	13.09
6335	N	GLY	B	204	31.516	37.670	111.195	1.00	10.71
6337	CA	GLY	B	204	30.568	38.087	110.179	1.00	9.73
6340	C	GLY	B	204	30.758	37.394	108.856	1.00	9.79
6341	O	GLY	B	204	30.698	38.048	107.805	1.00	10.48
6342	N	ASN	B	205	30.947	36.084	108.895	1.00	8.78
6344	CA	ASN	B	205	31.118	35.306	107.663	1.00	9.14
6346	CB	ASN	B	205	29.816	35.287	106.847	1.00	8.57
6349	CG	ASN	B	205	29.871	34.356	105.656	1.00	9.85
6350	OD1	ASN	B	205	30.714	33.457	105.606	1.00	10.55
6351	ND2	ASN	B	205	28.993	34.588	104.678	1.00	9.83

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6354	C	ASN	B	205	32.257	35.907	106.863	1.00	8.79
6355	O	ASN	B	205	32.157	36.192	105.662	1.00	8.32
6356	N	HIS	B	206	33.390	36.022	107.527	1.00	8.97
6358	CA	HIS	B	206	34.562	36.629	106.946	1.00	9.36
6360	CB	HIS	B	206	35.685	36.706	107.987	1.00	9.58
6363	CG	HIS	B	206	36.709	37.718	107.620	1.00	12.39
6364	ND1	HIS	B	206	37.991	37.377	107.263	1.00	16.98
6366	CE1	HIS	B	206	38.649	38.469	106.928	1.00	11.60
6368	NE2	HIS	B	206	37.842	39.504	107.058	1.00	16.78
6370	CD2	HIS	B	206	36.609	39.059	107.462	1.00	13.69
6372	C	HIS	B	206	35.015	35.885	105.718	1.00	9.31
6373	O	HIS	B	206	35.164	34.675	105.738	1.00	9.77
6374	N	CYS	B	206	35.224	36.627	104.637	1.00	9.31
6376	CA	CYS	B	207	35.652	36.073	103.361	1.00	10.32
6378	CB	CYS	B	207	37.034	35.443	103.460	1.00	10.86
6381	SG	CYS	B	207	38.348	36.657	103.762	1.00	15.14
6382	C	CYS	B	207	34.667	35.088	102.805	1.00	8.76
6383	O	CYS	B	207	35.011	34.317	101.912	1.00	8.20
6384	N	GLY	B	208	33.433	35.115	103.297	1.00	7.91
6386	CA	GLY	B	208	32.406	34.217	102.775	1.00	7.40
6389	C	GLY	B	208	32.603	32.747	103.107	1.00	7.54
6390	O	GLY	B	208	32.037	31.862	102.490	1.00	8.17
6391	N	ILE	B	209	33.398	32.476	104.126	1.00	8.18
6393	CA	ILE	B	209	33.712	31.097	104.439	1.00	8.78
6395	CB	ILE	B	209	34.717	31.038	105.588	1.00	9.19
6397	CG1	ILE	B	209	35.228	29.592	105.723	1.00	11.64
6400	CD1	ILE	B	209	36.618	29.494	106.171	1.00	12.80
6404	CG2	ILE	B	209	34.102	31.548	106.878	1.00	10.66
6408	C	ILE	B	209	32.479	30.221	104.693	1.00	8.02
6409	O	ILE	B	209	32.464	29.036	104.334	1.00	7.30
6410	N	ALA	B	210	31.429	30.780	105.285	1.00	7.38
6412	CA	ALA	B	210	30.201	30.046	105.509	1.00	7.87
6414	CB	ALA	B	210	29.674	30.319	106.921	1.00	8.78
6418	C	ALA	B	210	29.136	30.362	104.478	1.00	7.92
6419	O	ALA	B	210	27.971	30.007	104.685	1.00	9.05
6420	N	SER	B	211	29.510	30.982	103.360	1.00	6.97
6422	CA	SER	B	211	28.513	31.279	102.340	1.00	8.47
6424	CB	SER	B	211	29.114	32.218	101.316	1.00	7.74
6427	OG	SER	B	211	29.265	33.533	101.848	1.00	8.06
6429	C	SER	B	211	27.970	30.016	101.677	1.00	8.53
6430	O	SER	B	211	26.744	29.822	101.620	1.00	9.33
6431	N	PHE	B	212	28.856	29.148	101.203	1.00	8.26
6433	CA	PHE	B	212	28.425	27.984	100.461	1.00	8.97
6435	CB	PHE	B	212	28.614	28.246	98.979	1.00	9.56
6438	CG	PHE	B	212	27.776	29.395	98.473	1.00	11.11
6439	CD1	PHE	B	212	28.340	30.628	98.234	1.00	11.91
6441	CE1	PHE	B	212	27.553	31.693	97.786	1.00	13.66
6443	CZ	PHE	B	212	26.200	31.515	97.613	1.00	15.69
6445	CE2	PHE	B	212	25.622	30.283	97.876	1.00	15.67
6447	CD2	PHE	B	212	26.412	29.234	98.312	1.00	13.06
6449	C	PHE	B	212	29.162	26.729	100.890	1.00	8.20

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6450	O	PHE	B	212	29.967	26.194	100.157	1.00	9.55
6451	N	PRO	B	213	28.840	26.235	102.067	1.00	7.58
6452	CA	PRO	B	213	29.467	25.028	102.573	1.00	7.51
6454	CB	PRO	B	213	29.381	25.219	104.100	1.00	7.85
6457	CG	PRO	B	213	28.799	26.602	104.314	1.00	8.37
6460	CD	PRO	B	213	27.978	26.838	103.091	1.00	7.33
6463	C	PRO	B	213	28.687	23.803	102.150	1.00	7.29
6464	O	PRO	B	213	27.458	23.840	102.094	1.00	8.78
6465	N	SER	B	214	29.388	22.716	101.906	1.00	7.32
6467	CA	SER	B	214	28.730	21.454	101.622	1.00	8.06
6469	CB	SER	B	214	28.403	21.347	100.149	1.00	8.21
6472	OG	SER	B	214	29.575	21.438	99.349	1.00	9.81
6474	C	SER	B	214	29.615	20.302	102.029	1.00	7.59
6475	O	SER	B	214	30.833	20.443	102.149	1.00	7.85
6476	N	TYR	B	215	29.003	19.152	102.241	1.00	8.34
6478	CA	TYR	B	215	29.761	17.946	102.557	1.00	8.50
6480	CB	TYR	B	215	30.026	17.772	104.056	1.00	8.96
6483	CG	TYR	B	215	28.795	17.546	104.891	1.00	10.08
6484	CD1	TYR	B	215	28.092	18.605	105.438	1.00	11.59
6486	CE1	TYR	B	215	26.962	18.386	106.215	1.00	11.64
6488	CZ	TYR	B	215	26.533	17.114	106.447	1.00	13.10
6489	OH	TYR	B	215	25.386	16.889	107.201	1.00	16.38
6491	CE2	TYR	B	215	27.208	16.054	105.925	1.00	12.70
6493	CD2	TYR	B	215	28.337	16.268	105.155	1.00	11.46
6495	C	TYR	B	215	29.038	16.745	101.993	1.00	8.54
6496	O	TYR	B	215	27.802	16.728	101.924	1.00	9.15
6497	N	PRO	B	216	29.798	15.762	101.557	1.00	8.44
6498	CA	PRO	B	216	29.233	14.543	101.005	1.00	8.78
6500	CB	PRO	B	216	30.322	14.095	100.028	1.00	8.88
6503	CG	PRO	B	216	31.601	14.545	100.702	1.00	8.53
6506	CD	PRO	B	216	31.277	15.741	101.519	1.00	8.41
6509	C	PRO	B	216	29.083	13.482	102.059	1.00	10.39
6510	O	PRO	B	216	29.679	13.557	103.117	1.00	10.24
6511	N	GLU	B	217	28.299	12.469	101.743	1.00	10.96
6513	CA	GLU	B	217	28.221	11.317	102.614	1.00	13.19
6515	CB	GLU	B	217	27.005	11.396	103.549	1.00	15.26
6518	CG	GLU	B	217	27.318	12.274	104.768	1.00	18.05
6521	CD	GLU	B	217	26.124	12.591	105.663	1.00	22.53
6522	OE1	GLU	B	217	26.097	12.144	106.848	1.00	27.25
6523	OE2	GLU	B	217	25.227	13.303	105.189	1.00	22.86
6524	C	GLU	B	217	28.321	10.075	101.731	1.00	13.81
6525	O	GLU	B	217	28.107	10.120	100.521	1.00	13.33
6526	N	ILE	B	218	28.704	8.968	102.344	1.00	14.68
6528	CA	ILE	B	218	28.898	7.712	101.620	1.00	16.34
6530	CB	ILE	B	218	30.356	7.277	101.777	1.00	16.17
6532	CG1	ILE	B	218	31.211	8.231	100.959	1.00	17.81
6535	CD1	ILE	B	218	32.681	8.041	101.087	1.00	19.32
6539	CG2	ILE	B	218	30.577	5.862	101.271	1.00	17.38
6543	C	ILE	B	218	27.899	6.654	102.079	1.00	18.67
6544	O	ILE	B	218	27.164	6.116	101.235	1.00	21.88
6545	O5	E64	B	219	34.121	30.173	90.104	1.00	26.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6546	C11	E64	B	219	33.822	29.072	90.553	1.00	24.39
6547	C6	E64	B	219	34.642	28.498	91.669	1.00	20.50
6549	C7	E64	B	219	34.118	29.099	92.976	1.00	20.45
6552	C8	E64	B	219	34.705	28.458	94.230	1.00	18.22
6554	C10	E64	B	219	34.683	26.931	94.166	1.00	17.40
6558	C9	E64	B	219	34.018	29.001	95.485	1.00	18.67
6562	N1	E64	B	219	36.071	28.806	91.559	1.00	19.79
6564	C4	E64	B	219	36.859	27.888	90.993	1.00	21.86
6565	O4	E64	B	219	36.392	26.846	90.563	1.00	21.74
6566	C3	E64	B	219	38.333	28.132	90.843	1.00	23.81
6568	O3	E64	B	219	38.539	29.270	90.033	1.00	27.96
6570	C2	E64	B	219	39.019	28.435	92.162	1.00	25.36
6573	C1	E64	B	219	40.503	28.169	92.048	1.00	26.17
6574	O2	E64	B	219	40.931	27.091	91.407	1.00	22.97
6576	O1	E64	B	219	41.313	28.926	92.555	1.00	27.62
6577	N2	E64	B	219	32.802	28.317	90.117	1.00	23.21
6579	C12	E64	B	219	31.842	28.668	89.079	1.00	25.60
6582	C13	E64	B	219	32.436	28.304	87.736	1.00	27.50
6585	C14	E64	B	219	31.439	27.509	86.905	1.00	31.00
6588	C15	E64	B	219	31.759	27.646	85.422	1.00	33.32
6591	N3	E64	B	219	30.531	27.322	84.703	1.00	37.32
6593	C16	E64	B	219	30.100	27.805	83.535	1.00	40.73
6594	N5	E64	B	219	30.762	28.709	82.812	1.00	42.37
6597	N4	E64	B	219	28.937	27.347	83.083	1.00	42.34
6600	O	HOH	W	1	65.010	24.930	63.116	1.00	55.52
6603	O	HOH	W	2	77.256	36.811	70.602	1.00	10.08
6606	O	HOH	W	3	47.993	24.927	100.087	1.00	8.83
6609	O	HOH	W	4	35.329	20.114	84.864	1.00	11.34
6612	O	HOH	W	5	33.947	15.288	105.007	1.00	9.78
6615	O	HOH	W	6	69.860	18.539	71.383	1.00	9.71
6618	O	HOH	W	7	51.786	20.083	103.934	1.00	12.76
6621	O	HOH	W	8	42.117	15.546	102.628	1.00	9.67
6624	O	HOH	W	9	34.089	34.712	110.116	1.00	9.09
6627	O	HOH	W	10	57.841	36.909	46.760	1.00	11.84
6630	O	HOH	W	11	84.176	34.864	53.493	1.00	11.13
6633	O	HOH	W	12	29.083	7.162	93.810	1.00	11.10
6636	O	HOH	W	13	63.992	42.975	56.093	1.00	10.67
6639	O	HOH	W	14	44.051	13.459	90.398	1.00	12.26
6642	O	HOH	W	15	47.954	17.469	105.221	1.00	9.60
6645	O	HOH	W	16	78.158	27.636	55.502	1.00	10.51
6648	O	HOH	W	17	29.801	9.397	105.035	1.00	12.95
6651	O	HOH	W	18	80.933	31.456	59.132	1.00	10.26
6654	O	HOH	W	19	66.723	29.785	75.948	1.00	11.37
6657	O	HOH	W	20	39.958	15.418	104.301	1.00	9.71
6660	O	HOH	W	21	31.652	29.091	101.619	1.00	8.26
6663	O	HOH	W	22	37.278	33.577	107.249	1.00	12.20
6666	O	HOH	W	23	68.372	36.610	82.094	1.00	11.82
6669	O	HOH	W	24	21.336	20.339	100.798	1.00	15.70
6672	O	HOH	W	25	80.910	33.978	60.177	1.00	10.81
6675	O	HOH	W	26	65.778	30.096	82.353	1.00	13.90
6678	O	HOH	W	27	40.211	8.325	102.491	1.00	11.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6681	O	HOH	W	28	50.399	17.771	103.857	1.00	11.17
6684	O	HOH	W	29	70.695	22.827	71.951	1.00	13.80
6687	O	HOH	W	30	79.230	26.844	48.350	1.00	14.14
6690	O	HOH	W	31	84.737	30.861	71.997	1.00	16.20
6693	O	HOH	W	32	66.490	27.793	58.204	1.00	15.85
6696	O	HOH	W	33	75.998	45.177	57.586	1.00	11.16
6699	O	HOH	W	34	73.674	35.740	44.133	1.00	12.84
6702	O	HOH	W	35	41.002	19.405	99.840	1.00	12.86
6705	O	HOH	W	36	31.787	29.189	114.809	1.00	13.55
6708	O	HOH	W	37	45.430	7.693	95.667	1.00	13.84
6711	O	HOH	W	38	65.608	22.433	50.774	1.00	15.92
6714	O	HOH	W	39	49.314	23.576	109.440	1.00	13.79
6717	O	HOH	W	40	41.348	22.075	99.724	1.00	11.40
6720	O	HOH	W	41	43.344	15.473	97.890	1.00	13.19
6723	O	HOH	W	42	45.289	20.160	99.204	1.00	11.07
6726	O	HOH	W	43	65.196	30.118	57.852	1.00	15.59
6729	O	HOH	W	44	77.829	37.272	65.052	1.00	12.60
6732	O	HOH	W	45	22.990	18.020	83.905	1.00	12.44
6735	O	HOH	W	46	74.531	15.031	66.409	1.00	14.01
6738	O	HOH	W	47	46.525	-0.565	86.250	1.00	15.59
6741	O	HOH	W	48	44.506	7.677	108.526	1.00	18.31
6744	O	HOH	W	49	24.823	27.933	101.275	1.00	15.64
6747	O	HOH	W	50	41.551	23.852	97.703	1.00	14.28
6750	O	HOH	W	51	22.156	13.766	95.128	1.00	17.49
6753	O	HOH	W	52	46.449	14.820	108.045	1.00	14.57
6756	O	HOH	W	53	22.404	14.931	87.993	1.00	14.26
6759	O	HOH	W	54	34.934	27.188	119.486	1.00	12.62
6762	O	HOH	W	55	66.480	29.064	45.047	1.00	16.16
6765	O	HOH	W	56	74.259	51.169	56.178	1.00	15.59
6768	O	HOH	W	57	74.681	17.440	76.138	1.00	13.33
6771	O	HOH	W	58	50.624	36.057	107.470	1.00	18.21
6774	O	HOH	W	59	45.186	42.471	100.718	1.00	17.49
6777	O	HOH	W	60	83.342	43.442	54.949	1.00	14.01
6780	O	HOH	W	61	90.914	34.338	54.411	1.00	15.98
6783	O	HOH	W	62	32.419	25.044	121.776	1.00	15.63
6786	O	HOH	W	63	75.841	39.452	76.864	1.00	16.29
6789	O	HOH	W	64	76.349	34.598	61.937	1.00	14.31
6792	O	HOH	W	65	67.559	26.825	46.469	1.00	14.30
6795	O	HOH	W	66	32.799	9.507	84.280	1.00	16.71
6798	O	HOH	W	67	75.524	14.683	75.872	1.00	17.73
6801	O	HOH	W	68	72.816	35.384	65.258	1.00	15.54
6804	O	HOH	W	69	79.024	46.881	60.098	1.00	18.27
6807	O	HOH	W	70	25.300	36.095	106.795	1.00	21.84
6810	O	HOH	W	71	75.055	20.341	79.965	1.00	17.44
6813	O	HOH	W	72	74.959	34.188	64.251	1.00	12.05
6816	O	HOH	W	73	48.413	13.244	91.367	1.00	19.01
6819	O	HOH	W	74	65.680	25.473	48.156	1.00	20.00
6822	O	HOH	W	75	73.335	38.204	77.359	1.00	15.82
6825	O	HOH	W	76	67.735	13.736	65.881	1.00	20.17
6828	O	HOH	W	77	83.583	22.403	68.438	1.00	19.88
6831	O	HOH	W	78	45.617	11.849	84.593	1.00	15.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6834	O	HOH	W	79	29.835	24.041	95.835	1.00	16.54
6837	O	HOH	W	80	87.513	31.594	61.382	1.00	17.76
6840	O	HOH	W	81	60.755	46.719	60.826	1.00	19.58
6843	O	HOH	W	82	72.604	24.584	49.668	1.00	14.32
6846	O	HOH	W	83	78.831	38.373	60.052	1.00	15.59
6849	O	HOH	W	84	29.583	34.343	96.391	1.00	20.83
6852	O	HOH	W	85	29.523	24.066	98.543	1.00	15.16
6855	O	HOH	W	86	61.902	34.407	44.835	1.00	17.37
6858	O	HOH	W	87	32.100	29.010	118.657	1.00	19.96
6861	O	HOH	W	88	46.537	7.959	98.915	1.00	19.34
6864	O	HOH	W	89	38.941	35.784	114.688	1.00	17.32
6867	O	HOH	W	90	73.772	42.226	41.887	1.00	16.84
6870	O	HOH	W	91	85.009	35.494	69.481	1.00	18.61
6873	O	HOH	W	92	64.136	21.863	74.156	1.00	16.04
6876	O	HOH	W	93	54.810	26.652	104.608	1.00	18.74
6879	O	HOH	W	94	68.581	44.811	46.405	1.00	14.75
6882	O	HOH	W	95	88.170	40.424	55.085	1.00	19.76
6885	O	HOH	W	96	87.015	18.313	62.426	1.00	20.57
6888	O	HOH	W	97	21.612	17.501	97.855	1.00	18.49
6891	O	HOH	W	98	67.849	45.243	72.981	1.00	19.80
6894	O	HOH	W	99	31.277	3.778	88.274	1.00	15.81
6897	O	HOH	W	100	41.310	37.219	100.311	1.00	14.86
6900	O	HOH	W	101	25.674	14.947	103.096	1.00	13.67
6903	O	HOH	W	102	63.900	47.126	56.817	1.00	19.69
6906	O	HOH	W	103	59.512	26.756	66.061	1.00	17.75
6909	O	HOH	W	104	43.275	18.022	99.196	1.00	14.21
6912	O	HOH	W	105	53.303	25.372	97.929	1.00	20.11
6915	O	HOH	W	106	87.057	21.303	62.462	1.00	22.76
6918	O	HOH	W	107	80.224	13.610	67.646	1.00	17.11
6921	O	HOH	W	108	47.502	25.539	110.532	1.00	18.19
6924	O	HOH	W	109	34.285	39.410	104.697	1.00	16.86
6927	O	HOH	W	110	70.977	49.159	68.949	1.00	22.50
6930	O	HOH	W	111	47.100	35.779	114.411	1.00	18.95
6933	O	HOH	W	112	38.143	19.523	81.694	1.00	20.23
6936	O	HOH	W	113	43.637	14.656	95.450	1.00	21.49
6939	O	HOH	W	114	63.576	22.118	58.826	1.00	16.42
6942	O	HOH	W	115	76.104	35.646	78.518	1.00	18.28
6945	O	HOH	W	116	68.100	38.804	69.840	1.00	19.35
6948	O	HOH	W	117	73.621	18.644	78.256	1.00	18.30
6951	O	HOH	W	118	77.000	29.366	82.123	1.00	20.45
6954	O	HOH	W	119	26.270	27.074	107.272	1.00	16.28
6957	O	HOH	W	120	77.882	40.796	59.099	1.00	19.93
6960	O	HOH	W	121	36.189	21.235	124.141	1.00	21.89
6963	O	HOH	W	122	68.476	18.405	60.149	1.00	15.17
6966	O	HOH	W	123	84.779	36.965	67.175	1.00	21.09
6969	O	HOH	W	124	34.078	2.283	83.802	1.00	20.70
6972	O	HOH	W	125	79.568	42.502	73.503	1.00	20.34
6975	O	HOH	W	126	75.644	41.242	74.871	1.00	18.90
6978	O	HOH	W	127	26.850	32.919	111.666	1.00	19.44
6981	O	HOH	W	128	60.860	43.219	49.502	1.00	23.90
6984	O	HOH	W	129	42.204	26.107	119.463	1.00	19.22

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6987	O	HOH	W	130	49.152	25.722	93.353	1.00	19.84
6990	O	HOH	W	131	22.173	14.870	97.728	1.00	17.59
6993	O	HOH	W	132	50.529	24.312	86.650	1.00	22.79
6996	O	HOH	W	133	49.974	17.846	94.440	1.00	20.83
6999	O	HOH	W	134	64.643	25.879	84.419	1.00	25.49
7002	O	HOH	W	135	77.212	12.184	67.336	1.00	22.24
7005	O	HOH	W	136	79.094	44.230	65.373	1.00	24.45
7008	O	HOH	W	137	73.438	42.654	70.506	1.00	19.42
7011	O	HOH	W	138	78.008	36.620	62.218	1.00	18.28
7014	O	HOH	W	139	29.557	29.079	116.583	1.00	21.15
7017	O	HOH	W	140	85.483	41.887	56.116	1.00	23.48
7020	O	HOH	W	141	22.329	8.089	96.113	1.00	29.93
7023	O	HOH	W	142	44.945	13.032	108.894	1.00	21.43
7026	O	HOH	W	143	37.715	35.949	117.239	1.00	23.64
7029	O	HOH	W	144	76.704	31.796	43.140	1.00	22.03
7032	O	HOH	W	145	54.009	29.526	108.354	1.00	19.62
7035	O	HOH	W	146	62.245	16.869	70.598	1.00	22.94
7038	O	HOH	W	147	81.467	10.966	64.846	1.00	23.12
7041	O	HOH	W	148	80.439	34.852	44.985	1.00	24.62
7044	O	HOH	W	149	45.732	2.587	83.663	1.00	27.98
7047	O	HOH	W	150	72.895	30.385	82.319	1.00	21.62
7050	O	HOH	W	151	28.699	34.868	111.312	1.00	22.94
7053	O	HOH	W	152	38.207	27.599	120.117	1.00	20.73
7056	O	HOH	W	153	68.067	13.151	70.812	1.00	22.37
7059	O	HOH	W	154	63.792	46.700	67.516	1.00	18.60
7062	O	HOH	W	155	74.466	12.302	65.441	1.00	22.64
7065	O	HOH	W	156	67.453	14.556	68.385	1.00	19.53
7068	O	HOH	W	157	61.803	44.776	67.262	1.00	22.39
7071	O	HOH	W	158	92.109	41.530	46.097	1.00	33.03
7074	O	HOH	W	159	90.436	32.927	56.949	1.00	21.54
7077	O	HOH	W	160	61.212	46.206	56.924	1.00	27.34
7080	O	HOH	W	161	54.361	19.443	104.821	1.00	22.44
7083	O	HOH	W	162	84.475	34.504	65.544	1.00	22.92
7086	O	HOH	W	163	37.800	43.169	113.680	1.00	34.29
7089	O	HOH	W	164	63.766	20.015	54.070	1.00	23.13
7092	O	HOH	W	165	77.947	10.223	63.372	1.00	23.72
7095	O	HOH	W	166	84.179	45.697	43.266	1.00	21.04
7098	O	HOH	W	167	62.620	15.819	66.566	1.00	23.82
7101	O	HOH	W	168	45.015	4.319	105.225	1.00	25.52
7104	O	HOH	W	169	29.860	11.838	108.319	1.00	28.70
7107	O	HOH	W	170	29.796	36.520	113.307	1.00	23.15
7110	O	HOH	W	171	47.779	9.147	95.571	1.00	25.53
7113	O	HOH	W	172	46.305	19.665	116.018	1.00	23.98
7116	O	HOH	W	173	73.324	24.575	81.394	1.00	28.15
7119	O	HOH	W	174	81.826	21.373	81.323	1.00	25.13
7122	O	HOH	W	175	67.521	18.647	52.736	1.00	24.00
7125	O	HOH	W	176	73.964	13.732	73.954	1.00	20.97
7128	O	HOH	W	177	82.938	32.532	79.736	1.00	27.09
7131	O	HOH	W	178	41.410	2.201	93.875	1.00	31.58
7134	O	HOH	W	179	62.181	36.160	77.123	1.00	24.12
7137	O	HOH	W	180	72.377	16.978	80.033	1.00	29.09

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7140	O	HOH	W	181	84.704	18.843	58.758	1.00	24.37
7143	O	HOH	W	182	27.019	23.309	80.445	1.00	23.76
7146	O	HOH	W	183	23.709	21.602	94.537	1.00	26.10
7149	O	HOH	W	184	43.949	29.380	92.572	1.00	25.52
7152	O	HOH	W	185	86.008	36.386	47.697	1.00	22.06
7155	O	HOH	W	186	92.965	35.195	52.236	1.00	21.93
7158	O	HOH	W	187	38.937	2.842	98.558	1.00	25.49
7161	O	HOH	W	188	27.877	5.745	98.635	1.00	22.43
7164	O	HOH	W	189	80.001	20.043	80.063	1.00	21.35
7167	O	HOH	W	190	64.452	51.202	62.580	1.00	27.81
7170	O	HOH	W	191	32.927	4.134	98.960	1.00	26.51
7173	O	HOH	W	192	65.937	45.480	46.077	1.00	35.92
7176	O	HOH	W	193	44.788	23.480	114.645	1.00	42.84
7179	O	HOH	W	194	26.159	25.745	100.057	1.00	18.70
7182	O	HOH	W	195	63.706	49.096	54.532	1.00	37.57
7185	O	HOH	W	196	55.020	40.321	52.812	1.00	19.23
7188	O	HOH	W	197	25.315	21.525	111.034	1.00	26.85
7191	O	HOH	W	198	80.843	43.795	71.372	1.00	46.96
7194	O	HOH	W	199	67.231	55.152	55.093	1.00	29.31
7197	O	HOH	W	200	48.799	38.205	104.624	1.00	22.09
7200	O	HOH	W	201	27.683	11.578	84.511	1.00	31.40
7203	O	HOH	W	202	45.405	40.413	106.017	1.00	28.51
7206	O	HOH	W	203	76.944	10.958	69.233	1.00	25.05
7209	O	HOH	W	204	65.446	18.804	75.042	1.00	25.39
7212	O	HOH	W	205	80.016	23.611	50.987	1.00	28.81
7215	O	HOH	W	206	28.038	24.101	121.546	1.00	29.27
7218	O	HOH	W	207	59.699	31.319	71.489	1.00	32.51
7221	O	HOH	W	208	64.988	15.117	67.493	1.00	29.39
7224	O	HOH	W	209	42.084	34.250	93.828	1.00	25.67
7227	O	HOH	W	210	80.528	35.862	78.977	1.00	27.53
7230	O	HOH	W	211	45.798	5.027	96.511	1.00	36.67
7233	O	HOH	W	212	21.432	21.784	105.197	1.00	26.15
7236	O	HOH	W	213	24.121	14.552	107.313	1.00	29.18
7239	O	HOH	W	214	45.768	38.609	108.412	1.00	23.61
7242	O	HOH	W	215	74.297	20.562	49.376	1.00	29.54
7245	O	HOH	W	216	80.495	12.408	70.838	1.00	35.17
7248	O	HOH	W	217	55.359	27.582	107.030	1.00	25.03
7251	O	HOH	W	218	65.652	35.893	73.241	1.00	22.44
7254	O	HOH	W	219	30.897	3.007	85.391	1.00	29.85
7257	O	HOH	W	220	76.079	51.114	50.726	1.00	32.09
7260	O	HOH	W	221	28.278	39.053	106.654	1.00	23.09
7263	O	HOH	W	222	34.500	-0.749	93.641	1.00	23.32
7266	O	HOH	W	224	54.257	36.708	102.341	1.00	24.03
7269	O	HOH	W	225	34.015	40.165	108.178	1.00	25.71
7272	O	HOH	W	226	47.282	8.190	107.971	1.00	31.71
7275	O	HOH	W	227	38.761	24.784	80.970	1.00	28.57
7278	O	HOH	W	228	35.184	35.469	116.866	1.00	25.60
7281	O	HOH	W	229	73.228	16.306	56.053	1.00	24.65
7284	O	HOH	W	230	21.873	9.940	90.372	1.00	32.75
7287	O	HOH	W	231	32.517	30.932	120.042	1.00	29.78
7290	O	HOH	W	232	48.007	37.148	107.567	1.00	29.47

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7293	O	HOH	W	233	27.807	27.331	117.878	1.00	24.65
7296	O	HOH	W	234	29.674	16.833	81.251	1.00	27.77
7299	O	HOH	W	235	21.026	24.807	101.986	1.00	25.08
7302	O	HOH	W	236	36.656	16.396	79.299	1.00	32.24
7305	O	HOH	W	237	36.628	29.483	121.060	1.00	26.67
7308	O	HOH	W	238	51.551	22.230	88.170	1.00	32.31
7311	O	HOH	W	239	85.577	40.299	58.882	1.00	28.85
7314	O	HOH	W	240	77.012	15.283	53.326	1.00	31.74
7317	O	HOH	W	241	85.871	39.231	60.881	1.00	29.66
7320	O	HOH	W	242	29.085	26.155	120.124	1.00	24.30
7323	O	HOH	W	243	36.049	21.515	80.599	1.00	30.01
7326	O	HOH	W	244	85.802	23.740	69.227	1.00	31.62
7329	O	HOH	W	245	45.749	15.045	93.432	1.00	23.37
7332	O	HOH	W	246	21.760	25.827	99.361	1.00	25.11
7335	O	HOH	W	247	33.430	16.807	78.475	1.00	34.83
7338	O	HOH	W	248	74.847	47.438	66.670	1.00	26.51
7341	O	HOH	W	249	40.390	37.884	113.584	1.00	26.86
7344	O	HOH	W	250	66.350	34.046	41.054	1.00	31.51
7347	O	HOH	W	251	77.314	43.419	75.052	1.00	24.14
7350	O	HOH	W	252	32.250	35.413	93.556	1.00	28.44
7353	O	HOH	W	253	62.708	29.230	57.294	1.00	41.56
7356	O	HOH	W	254	73.683	47.964	41.641	1.00	26.73
7359	O	HOH	W	255	33.513	21.733	80.763	1.00	25.82
7362	O	HOH	W	256	47.124	9.180	101.705	1.00	41.34
7365	O	HOH	W	257	63.985	37.367	69.357	1.00	36.90
7368	O	HOH	W	258	25.794	18.863	111.361	1.00	27.99
7371	O	HOH	W	259	26.148	4.763	101.980	1.00	36.19
7374	O	HOH	W	260	79.876	17.371	82.630	1.00	35.27
7377	O	HOH	W	261	86.600	32.704	68.444	1.00	28.95
7380	O	HOH	W	262	61.572	47.421	51.208	1.00	32.40
7383	O	HOH	W	263	70.972	42.547	71.224	1.00	26.25
7386	O	HOH	W	264	36.254	0.745	95.309	1.00	28.20
7389	O	HOH	W	265	80.944	42.590	68.002	1.00	31.46
7392	O	HOH	W	266	64.056	21.313	76.961	1.00	27.51
7395	O	HOH	W	267	26.928	35.313	109.096	1.00	29.67
7398	O	HOH	W	268	42.200	23.496	115.194	1.00	29.69
7401	O	HOH	W	269	29.505	2.051	92.621	1.00	31.79
7404	O	HOH	W	270	68.308	28.527	43.160	1.00	29.07
7407	O	HOH	W	271	87.017	11.767	64.698	1.00	30.32
7410	O	HOH	W	272	59.392	44.489	55.575	1.00	26.52
7413	O	HOH	W	273	74.346	13.024	79.361	1.00	34.63
7416	O	HOH	W	274	67.952	42.569	69.612	1.00	30.03
7419	O	HOH	W	275	40.192	41.551	113.516	1.00	39.84
7422	O	HOH	W	276	54.851	24.105	69.996	1.00	24.17
7425	O	HOH	W	277	70.814	29.834	41.017	1.00	29.50
7428	O	HOH	W	278	74.500	27.703	81.294	1.00	31.61
7431	O	HOH	W	279	28.217	34.852	98.846	1.00	26.88
7434	O	HOH	W	280	72.434	11.723	74.551	1.00	32.09
7437	O	HOH	W	281	47.506	36.216	109.766	1.00	30.23
7440	O	HOH	W	282	70.477	26.063	82.263	1.00	31.95
7443	O	HOH	W	283	24.274	18.842	108.749	1.00	31.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7446	O	HOH	W	284	63.798	50.464	50.479	1.00	27.86
7449	O	HOH	W	285	45.444	28.336	90.116	1.00	31.78
7452	O	HOH	W	286	44.397	42.008	109.394	1.00	36.54
7455	O	HOH	W	287	72.063	47.805	72.134	1.00	32.28
7458	O	HOH	W	288	52.093	17.730	100.428	1.00	31.19
7461	O	HOH	W	289	83.838	24.094	72.607	1.00	36.48
7464	O	HOH	W	290	48.491	10.401	98.010	1.00	41.02
7467	O	HOH	W	291	62.641	34.294	42.089	1.00	36.84
7470	O	HOH	W	292	47.476	12.203	81.918	1.00	30.86
7473	O	HOH	W	293	32.799	22.283	124.734	1.00	39.98
7476	O	HOH	W	294	81.302	47.861	58.483	1.00	33.92
7479	O	HOH	W	295	34.262	-2.100	88.542	1.00	31.40
7482	O	HOH	W	296	69.917	44.390	42.273	1.00	34.06
7485	O	HOH	W	297	47.174	24.749	112.815	1.00	34.07
7488	O	HOH	W	298	87.181	14.997	65.222	1.00	28.90
7491	O	HOH	W	299	60.350	23.957	66.007	1.00	29.48
7494	O	HOH	W	300	69.932	47.480	74.488	1.00	45.24
7497	O	HOH	W	301	58.655	30.458	67.811	1.00	31.29
7500	O	HOH	W	302	35.081	26.060	127.087	1.00	30.72
7503	O	HOH	W	303	42.845	41.950	112.369	1.00	34.59
7506	O	HOH	W	304	62.484	42.162	67.666	1.00	31.32
7509	O	HOH	W	305	38.111	18.137	79.537	1.00	35.46
7512	O	HOH	W	306	59.061	26.409	78.987	1.00	30.96
7515	O	HOH	W	307	81.629	43.899	42.265	1.00	33.11
7518	O	HOH	W	308	35.055	14.289	116.028	1.00	38.80
7521	O	HOH	W	309	78.391	22.250	81.153	1.00	40.38
7524	O	HOH	W	310	60.340	34.775	66.818	1.00	33.17
7527	O	HOH	W	311	60.868	33.801	78.775	1.00	29.81
7530	O	HOH	W	312	68.971	35.381	39.999	1.00	29.30
7533	O	HOH	W	313	52.041	28.832	112.247	1.00	29.43
7536	O	HOH	W	314	50.321	19.458	90.921	1.00	35.02
7539	O	HOH	W	315	75.213	17.230	54.157	1.00	32.92
7542	O	HOH	W	316	63.962	11.916	58.541	1.00	30.95
7545	O	HOH	W	317	71.667	22.451	82.856	1.00	28.69
7548	O	HOH	W	318	62.803	14.065	70.900	1.00	37.87
7551	O	HOH	W	319	75.264	10.936	63.579	1.00	30.51
7554	O	HOH	W	320	72.663	44.505	40.441	1.00	31.56
7557	O	HOH	W	321	43.572	45.605	103.119	1.00	38.36
7560	O	HOH	W	322	87.344	20.235	66.867	1.00	30.03
7563	O	HOH	W	323	86.071	21.874	59.813	1.00	35.10
7566	O	HOH	W	324	34.473	2.319	97.473	1.00	47.08
7569	O	HOH	W	325	29.557	35.238	93.423	1.00	31.30
7572	O	HOH	W	326	80.013	8.993	61.285	1.00	37.25
7575	O	HOH	W	327	31.474	11.261	112.272	1.00	42.99
7578	O	HOH	W	328	44.237	22.839	80.184	1.00	32.80
7581	O	HOH	W	329	43.461	38.047	112.877	1.00	30.92
7584	O	HOH	W	330	45.822	4.507	101.461	1.00	35.12
7587	O	HOH	W	331	38.585	38.368	118.185	1.00	31.59
7590	O	HOH	W	332	35.378	41.847	105.419	1.00	35.24
7593	O	HOH	W	333	77.069	42.917	59.203	1.00	31.40
7596	O	HOH	W	334	41.057	12.912	116.677	1.00	33.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7599	O	HOH	W	335	69.512	12.067	65.222	1.00	35.35
7602	O	HOH	W	336	89.623	19.821	66.141	1.00	40.09
7605	O	HOH	W	337	55.680	21.578	103.927	1.00	32.12
7608	O	HOH	W	338	75.368	44.997	38.071	1.00	37.52
7611	O	HOH	W	339	68.321	26.723	84.085	1.00	31.87
7614	O	HOH	W	340	66.028	30.105	42.876	1.00	33.11
7617	O	HOH	W	341	62.002	43.504	47.319	1.00	31.59
7620	O	HOH	W	342	87.185	36.536	45.368	1.00	34.96
7623	O	HOH	W	343	75.303	11.955	61.440	1.00	37.83
7626	O	HOH	W	344	81.356	41.161	42.157	1.00	33.89
7629	O	HOH	W	345	21.410	11.714	96.191	1.00	30.18
7632	O	HOH	W	346	41.358	2.333	97.218	1.00	41.85
7635	O	HOH	W	347	43.395	37.459	116.263	1.00	42.43
7638	O	HOH	W	348	36.582	-0.943	82.920	1.00	31.22
7641	O	HOH	W	349	64.367	12.644	64.796	1.00	37.95
7644	O	HOH	W	350	62.349	28.355	52.235	1.00	28.54
7647	O	HOH	W	351	45.725	30.098	88.003	1.00	34.61
7650	O	HOH	W	352	69.971	17.624	53.338	1.00	42.35
7653	O	HOH	W	353	19.842	19.735	104.611	1.00	33.98
7656	O	HOH	W	354	49.768	12.676	98.330	1.00	39.97
7659	O	HOH	W	355	84.345	19.356	54.985	1.00	38.56
7662	O	HOH	W	356	73.789	48.846	68.555	1.00	32.04
7665	O	HOH	W	357	57.829	40.220	43.059	1.00	41.52
7668	O	HOH	W	358	45.315	42.949	104.926	1.00	34.81
7671	O	HOH	W	359	52.164	33.072	101.101	1.00	35.58
7674	O	HOH	W	360	26.513	32.017	113.761	1.00	36.86
7677	O	HOH	W	361	28.670	26.050	95.404	1.00	44.40
7680	O	HOH	W	362	68.624	12.178	74.531	1.00	44.12
7683	O	HOH	W	363	63.357	36.988	74.328	1.00	35.04
7686	O	HOH	W	364	76.963	50.677	40.686	1.00	34.68
7689	O	HOH	W	365	30.904	7.363	107.191	1.00	49.14
7692	O	HOH	W	366	79.005	45.990	38.757	1.00	44.46
7695	O	HOH	W	367	66.282	36.689	70.671	1.00	31.78
7698	O	HOH	W	368	83.393	25.368	79.985	1.00	36.49
7701	O	HOH	W	369	48.269	15.812	93.362	1.00	28.66
7704	O	HOH	W	370	79.581	22.260	48.824	1.00	42.68
7707	O	HOH	W	371	79.371	14.503	82.894	1.00	44.40
7710	O	HOH	W	372	77.348	53.621	50.687	1.00	43.71
7713	O	HOH	W	373	49.851	29.256	116.702	1.00	37.95
7716	O	HOH	W	374	31.679	41.049	106.529	1.00	42.95
7719	O	HOH	W	375	37.604	4.999	110.395	1.00	35.02
7722	O	HOH	W	376	40.818	7.244	112.377	1.00	33.66
7725	O	HOH	W	377	72.235	34.634	41.688	1.00	39.53
7728	O	HOH	W	378	42.262	43.781	98.104	1.00	32.33
7731	O	HOH	W	379	80.658	44.682	61.601	1.00	36.18
7734	O	HOH	W	380	83.088	28.243	77.474	1.00	34.65
7737	O	HOH	W	381	57.660	29.389	57.797	1.00	37.39
7740	O	HOH	W	382	79.911	38.309	41.088	1.00	46.12
7743	O	HOH	W	383	24.388	13.964	83.335	1.00	43.93
7746	O	HOH	W	384	66.934	21.126	48.582	1.00	39.54
7749	O	HOH	W	385	45.581	5.110	107.583	1.00	44.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7752	O	HOH	W	386	68.788	32.420	85.158	1.00	34.02
7755	O	HOH	W	387	25.104	23.891	94.195	1.00	32.43
7758	O	HOH	W	388	68.345	41.020	40.114	1.00	34.75
7761	O	HOH	W	389	62.887	18.711	74.252	1.00	34.84
7764	O	HOH	W	390	29.838	31.117	93.514	1.00	39.99
7767	O	HOH	W	391	82.088	14.664	70.183	1.00	24.83
7770	O	HOH	W	392	48.942	13.656	94.644	1.00	37.51
7773	O	HOH	W	393	26.394	6.241	93.499	1.00	35.60
7776	O	HOH	W	394	26.509	5.757	86.209	1.00	33.17
7779	O	HOH	W	395	67.142	14.359	76.050	1.00	38.86
7782	O	HOH	W	396	81.643	43.583	75.342	1.00	38.31
7785	O	HOH	W	397	19.447	23.515	105.814	1.00	34.11
7788	O	HOH	W	398	51.805	34.070	113.447	1.00	36.32
7791	O	HOH	W	399	83.084	14.244	56.918	1.00	39.06
7794	O	HOH	W	400	83.735	21.442	52.945	1.00	46.70
7797	O	HOH	W	401	30.976	42.578	102.690	1.00	38.62
7800	O	HOH	W	402	73.593	20.208	82.459	1.00	35.51
7803	O	HOH	W	403	77.630	37.009	79.927	1.00	40.96
7806	O	HOH	W	404	82.046	39.380	44.220	1.00	43.89
7809	O	HOH	W	405	23.583	7.080	90.796	1.00	29.66
7812	O	HOH	W	406	41.632	5.408	83.615	1.00	36.08
7815	O	HOH	W	407	76.536	53.015	47.077	1.00	37.16
7818	O	HOH	W	408	86.797	14.752	69.083	1.00	33.41
7821	O	HOH	W	409	59.469	20.118	74.119	1.00	38.57
7824	O	HOH	W	410	51.694	28.116	95.871	1.00	31.61
7827	O	HOH	W	411	66.294	42.050	44.131	1.00	39.17
7830	O	HOH	W	412	43.946	2.770	96.711	1.00	43.29
7833	O	HOH	W	413	43.482	19.336	120.539	1.00	42.91
7836	O	HOH	W	414	69.486	49.525	45.498	1.00	37.65
7839	O	HOH	W	415	84.143	14.562	76.797	1.00	34.50
7842	O	HOH	W	416	68.761	22.499	47.575	1.00	31.51
7845	O	HOH	W	417	40.979	19.293	119.290	1.00	43.70
7848	O	HOH	W	418	34.426	29.963	84.029	1.00	37.22
7851	O	HOH	W	419	71.965	8.475	62.847	1.00	38.39
7854	O	HOH	W	420	57.222	30.883	60.921	1.00	19.03
7857	O	HOH	W	421	25.563	28.888	92.175	1.00	37.48
7860	O	HOH	W	422	62.393	40.653	65.870	1.00	34.28
7863	O	HOH	W	423	34.533	42.550	113.946	0.50	41.65
7866	O	HOH	W	424	39.391	31.970	91.332	1.00	43.58
7869	O	HOH	W	425	53.733	27.672	110.463	1.00	33.81
7872	O	HOH	W	426	28.962	14.335	81.311	1.00	35.33
7875	O	HOH	W	427	87.901	35.818	62.391	1.00	43.93
7878	O	HOH	W	428	52.020	29.992	97.868	1.00	39.74
7881	O	HOH	W	429	34.190	5.785	111.872	1.00	42.28
7884	O	HOH	W	430	71.587	12.062	66.527	1.00	34.10
7887	O	HOH	W	431	39.489	18.775	77.101	1.00	45.88
7890	O	HOH	W	432	35.837	10.980	116.864	1.00	43.05
7893	O	HOH	W	433	75.417	52.267	54.084	1.00	41.41
7896	O	HOH	W	434	67.615	18.692	50.057	1.00	36.86
7899	O	HOH	W	435	44.811	8.718	83.330	1.00	39.80
7902	O	HOH	W	436	70.886	31.145	84.751	1.00	28.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7905	O	HOH	W	437	51.197	32.306	97.309	1.00	36.75
7908	O	HOH	W	438	28.548	31.609	115.342	1.00	33.14
7911	O	HOH	W	439	32.126	39.301	115.079	1.00	31.75
7914	O	HOH	W	440	26.502	17.382	77.696	1.00	44.20
7917	O	HOH	W	441	81.898	11.730	55.444	1.00	44.33
7920	O	HOH	W	442	49.945	40.841	103.415	1.00	40.42
7923	O	HOH	W	443	58.304	37.456	64.461	1.00	38.51
7926	O	HOH	W	444	57.463	29.462	101.080	1.00	43.07
7929	O	HOH	W	445	36.238	14.017	77.566	1.00	35.63
7932	O	HOH	W	446	60.085	47.591	53.931	1.00	41.81
7935	O	HOH	W	447	46.068	40.220	110.575	1.00	43.86
7938	O	HOH	W	448	93.634	26.879	63.332	1.00	42.95
7941	O	HOH	W	449	81.337	26.373	43.904	1.00	41.94
7944	O	HOH	W	450	77.903	43.642	61.433	1.00	39.38
7947	O	HOH	W	451	69.005	50.348	67.279	1.00	32.78
7950	O	HOH	W	452	68.851	46.965	43.843	1.00	45.79
7953	O	HOH	W	453	60.160	30.024	62.616	1.00	40.29
7956	O	HOH	W	454	68.654	52.954	67.169	1.00	43.09
7959	O	HOH	W	455	76.029	26.107	80.714	1.00	36.96
7962	O	HOH	W	456	83.200	28.613	44.821	1.00	43.10
7965	O	HOH	W	457	85.142	39.882	76.006	0.50	36.02
7968	O	HOH	W	458	25.854	29.474	118.578	1.00	42.63
7971	O	HOH	W	459	41.830	42.765	94.946	1.00	66.37
7974	O	HOH	W	460	34.334	28.010	121.678	1.00	38.12
7977	O	HOH	W	461	75.313	49.263	64.920	1.00	36.35
7980	O	HOH	W	462	36.766	39.821	119.105	1.00	42.65
7983	O	HOH	W	463	21.484	10.505	85.861	1.00	51.47
7986	O	HOH	W	464	51.305	16.539	96.840	1.00	40.12
7989	O	HOH	W	465	49.722	43.738	99.013	1.00	37.76
7992	O	HOH	W	466	64.274	44.842	47.738	1.00	38.08
7995	O	HOH	W	467	69.756	11.164	70.065	1.00	39.31
7998	O	HOH	W	468	38.968	27.656	123.703	1.00	38.81
8001	O	HOH	W	469	82.187	17.294	51.824	1.00	40.91
8004	O	HOH	W	470	73.140	11.005	58.875	1.00	47.18
8007	O	HOH	W	471	35.280	19.220	78.470	1.00	48.42
8010	O	HOH	W	472	35.184	32.385	90.803	1.00	28.91
8013	O	HOH	W	473	79.028	46.766	67.060	1.00	42.02
8016	O	HOH	W	474	58.103	22.205	74.262	1.00	43.33
8019	O	HOH	W	475	61.416	37.369	42.799	1.00	55.35
8022	O	HOH	W	476	57.221	22.152	105.660	1.00	37.83
8025	O	HOH	W	477	51.024	32.286	94.075	1.00	54.76
8028	O	HOH	W	478	86.392	39.420	66.320	1.00	48.76
8031	O	HOH	W	479	77.588	43.434	38.590	1.00	43.29
8034	O	HOH	W	480	34.464	16.627	116.852	1.00	37.01
8037	O	HOH	W	481	31.329	10.974	82.359	1.00	31.83
8040	O	HOH	W	482	24.070	26.807	96.362	1.00	46.55
8043	O	HOH	W	483	31.824	40.744	112.604	1.00	50.95
8046	O	HOH	W	484	21.204	7.983	93.738	1.00	48.48
8049	O	HOH	W	485	72.696	18.336	52.975	1.00	40.58
8052	O	HOH	W	486	44.682	17.061	76.967	1.00	44.18
8055	O	HOH	W	487	70.663	15.492	80.703	1.00	41.84

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8058	O	HOH	W	488	57.064	25.166	103.588	1.00	34.81
8061	O	HOH	W	489	37.416	33.890	89.885	1.00	45.01
8064	O	HOH	W	490	48.808	29.874	93.382	1.00	39.49
8067	O	HOH	W	491	81.114	52.145	54.365	1.00	34.19
8070	O	HOH	W	492	60.916	40.117	45.014	1.00	49.27
8073	O	HOH	W	493	87.580	36.700	64.605	1.00	45.03
8076	O	HOH	W	494	28.751	23.686	76.633	1.00	40.84
8079	O	HOH	W	495	38.862	7.486	115.832	1.00	36.14
8082	O	HOH	W	496	26.388	25.331	116.574	1.00	39.14
8085	O	HOH	W	497	67.656	24.470	45.331	1.00	40.99
8088	O	HOH	W	498	69.747	28.320	85.491	1.00	34.10
8091	O	HOH	W	499	79.157	19.648	48.848	1.00	50.77
8094	O	HOH	W	500	35.410	30.470	87.201	1.00	41.41
8097	O	HOH	W	501	32.492	0.664	96.413	1.00	39.20
8100	O	HOH	W	502	30.740	0.439	94.308	1.00	39.62
8103	O	HOH	W	503	51.414	9.199	99.427	1.00	51.33
8106	O	HOH	W	504	73.875	15.376	84.082	1.00	39.15
8109	O	HOH	W	505	55.890	29.533	67.341	1.00	43.19
8112	O	HOH	W	506	30.063	5.482	84.894	1.00	39.03
8115	O	HOH	W	507	82.232	50.586	56.992	1.00	40.90
8118	O	HOH	W	508	20.037	18.392	102.027	1.00	43.88
8121	O	HOH	W	509	49.965	30.105	89.488	1.00	46.51
8124	O	HOH	W	510	81.428	30.380	84.090	1.00	33.88
8127	O	HOH	W	511	29.987	17.190	119.110	1.00	41.07
8130	O	HOH	W	512	66.147	49.202	65.871	1.00	37.48
8133	O	HOH	W	513	32.697	13.462	114.610	1.00	47.34
8136	O	HOH	W	514	75.976	23.931	82.144	1.00	39.03
8139	O	HOH	W	515	74.330	38.046	81.018	1.00	31.43
8142	O	HOH	W	516	28.219	0.316	91.245	1.00	40.92
8145	O	HOH	W	517	74.757	10.587	71.386	1.00	38.69
8148	O	HOH	W	518	77.907	51.057	61.453	1.00	41.18
8151	O	HOH	W	519	65.667	11.738	72.078	1.00	51.87
8154	O	HOH	W	520	76.156	38.427	40.321	1.00	37.32
8157	O	HOH	W	521	22.154	16.737	110.149	1.00	47.30
8160	O	HOH	W	522	24.981	17.351	113.232	1.00	38.33
8163	O	HOH	W	523	82.375	26.374	76.413	1.00	36.63
8166	O	HOH	W	524	79.076	46.568	71.199	1.00	40.64
8169	O	HOH	W	525	58.986	32.286	64.289	1.00	44.77
8172	O	HOH	W	526	25.625	-0.091	89.906	1.00	47.87
8175	O	HOH	W	527	20.675	18.226	107.890	1.00	43.15
8178	O	HOH	W	528	53.719	21.535	97.399	1.00	38.34
8181	O	HOH	W	529	70.091	49.852	71.363	1.00	46.43
8184	O	HOH	W	530	65.710	10.722	68.316	1.00	46.58
8187	O	HOH	W	531	58.523	29.264	77.931	1.00	50.19
8190	O	HOH	W	532	75.007	21.150	45.963	1.00	42.71
8193	O	HOH	W	533	90.100	34.890	61.134	1.00	43.21
8196	O	HOH	W	534	76.029	16.233	84.972	1.00	50.95
8199	O	HOH	W	535	57.290	45.395	56.572	1.00	41.53
8202	O	HOH	W	536	79.034	53.482	53.953	1.00	45.83
8205	O	HOH	W	537	31.414	-0.965	85.300	1.00	42.04
8208	O	HOH	W	538	86.663	27.162	44.492	1.00	38.65

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8211	O	HOH	W	539	22.241	21.804	107.644	1.00	42.55
8214	O	HOH	W	540	19.522	12.661	98.527	1.00	42.80
8217	O	HOH	W	541	50.321	8.270	93.513	1.00	41.46
8220	O	HOH	W	542	85.443	9.963	63.939	1.00	43.91
8223	O	HOH	W	543	28.634	9.593	84.503	1.00	37.85
8226	O	HOH	W	544	22.689	11.016	105.997	1.00	47.21
8229	O	HOH	W	545	26.887	12.624	113.084	1.00	47.15
8232	O	HOH	W	546	27.117	2.873	94.393	1.00	41.31
8235	O	HOH	W	547	57.067	25.983	108.052	1.00	37.53
8238	O	HOH	W	548	24.956	23.645	117.873	1.00	51.24
8241	O	HOH	W	549	64.164	30.352	59.866	1.00	43.38
8244	O	HOH	W	550	72.971	27.190	85.347	1.00	48.35
8247	O	HOH	W	551	51.710	31.912	117.232	1.00	45.34
8250	O	HOH	W	552	55.097	33.482	110.146	1.00	41.77
8253	O	HOH	W	553	59.768	22.449	78.026	1.00	39.66
8256	O	HOH	W	554	66.097	16.589	52.830	1.00	36.95
8259	O	HOH	W	555	59.316	22.334	101.691	1.00	44.95
8262	O	HOH	W	556	35.383	43.855	107.407	1.00	50.46
8265	O	HOH	W	557	91.966	30.332	61.640	1.00	47.63
8268	O	HOH	W	558	35.665	0.387	109.138	1.00	45.78
8271	O	HOH	W	559	65.894	16.532	76.954	1.00	46.35
8274	O	HOH	W	560	84.011	47.321	58.712	1.00	43.55
8277	O	HOH	W	561	51.036	32.874	119.829	1.00	51.48
8280	O	HOH	W	562	45.439	39.575	94.936	0.50	39.83
8283	O	HOH	W	563	20.295	28.361	110.544	1.00	41.32
8286	O	HOH	W	564	31.867	1.884	108.575	1.00	43.27
8289	O	HOH	W	565	24.260	2.211	93.353	1.00	45.14
8292	O	HOH	W	566	85.121	15.813	57.409	1.00	50.14
8295	O	HOH	W	567	25.273	19.060	118.076	1.00	38.20
8298	O	HOH	W	568	81.597	13.045	83.500	1.00	43.69
8301	O	HOH	W	569	70.217	42.042	38.925	1.00	49.82
8304	O	HOH	W	570	81.413	26.380	83.755	1.00	48.43
8307	O	HOH	W	571	57.458	28.415	74.089	1.00	39.95
8310	O	HOH	W	572	26.395	1.843	103.480	1.00	44.49
8313	O	HOH	W	573	40.464	0.126	78.979	1.00	50.46
8316	O	HOH	W	574	81.934	33.436	43.613	1.00	45.48
8319	O	HOH	W	575	51.496	26.972	114.029	1.00	46.03
8322	O	HOH	W	576	33.843	-0.164	83.253	1.00	39.24
8325	O	HOH	W	577	33.910	30.938	81.060	1.00	41.93
8328	O	HOH	W	578	48.531	28.037	92.092	1.00	46.69
8331	O	HOH	W	579	52.642	43.598	100.051	1.00	48.51
8334	O	HOH	W	580	89.609	27.940	51.458	1.00	46.53
8337	O	HOH	W	581	27.953	41.151	96.275	1.00	26.17
8340	O	HOH	W	582	19.736	25.690	110.594	1.00	37.59
8343	O	HOH	W	583	42.010	40.196	113.497	1.00	48.49
8346	O	HOH	W	584	80.043	32.326	41.329	1.00	46.08
8349	O	HOH	W	585	49.529	35.398	118.296	1.00	41.95
8352	O	HOH	W	586	53.112	19.466	91.417	1.00	38.65
8355	O	HOH	W	587	75.825	12.813	77.520	1.00	34.91
8358	O	HOH	W	588	64.794	13.016	73.920	1.00	49.49
8361	O	HOH	W	589	62.166	18.668	77.736	1.00	53.44

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8364	O	HOH	W	590	51.227	30.521	121.427	1.00	48.93
8367	O	HOH	W	591	40.921	2.633	81.606	1.00	36.89
8370	O	HOH	W	592	36.264	44.963	99.507	1.00	40.02
8373	O	HOH	W	593	49.419	23.263	83.999	1.00	44.62
8376	O	HOH	W	594	70.339	11.588	76.510	1.00	43.54
8379	O	HOH	W	595	54.232	30.312	104.467	1.00	28.80
8382	O	HOH	W	596	40.103	32.300	120.462	1.00	43.57
8385	O	HOH	W	597	32.893	-2.613	90.203	1.00	41.26
8388	O	HOH	W	598	63.944	26.741	57.379	1.00	44.16
8391	O	HOH	W	599	89.725	21.936	62.970	1.00	41.95
8394	O	HOH	W	600	31.081	25.860	94.873	1.00	42.83
8397	O	HOH	W	601	20.303	23.707	109.013	1.00	45.74
8400	O	HOH	W	602	51.744	37.892	105.337	1.00	44.52
8403	O	HOH	W	603	57.183	33.427	61.957	1.00	45.67
8406	O	HOH	W	604	36.956	-1.520	105.464	1.00	43.07
8409	O	HOH	W	605	35.479	7.117	80.813	1.00	41.26
8412	O	HOH	W	606	87.601	24.790	49.846	1.00	45.05
8415	O	HOH	W	607	21.885	15.786	105.987	1.00	43.29
8418	O	HOH	W	608	65.204	17.630	81.522	1.00	43.09
8421	O	HOH	W	609	55.089	21.859	95.530	1.00	50.41
8424	O	HOH	W	610	45.486	27.431	118.393	1.00	42.46
8427	O	HOH	W	611	39.925	4.123	110.987	1.00	45.56
8430	O	HOH	W	612	26.615	24.169	98.955	1.00	29.48
8433	O	HOH	W	613	29.316	17.540	77.998	1.00	46.79
8436	O	HOH	W	614	85.582	22.805	50.023	1.00	47.03
8439	O	HOH	W	615	66.748	37.902	39.527	1.00	38.14
8442	O	HOH	W	616	82.067	25.724	47.938	1.00	51.42
8445	O	HOH	W	617	52.993	25.214	109.562	1.00	32.02
8448	O	HOH	W	618	76.927	24.322	54.990	1.00	43.99
8451	O	HOH	W	619	31.800	40.598	96.007	1.00	46.88
8454	O	HOH	W	620	24.266	10.521	104.060	1.00	49.92
8457	O	HOH	W	621	63.129	25.870	54.940	1.00	53.80
8460	O	HOH	W	622	41.556	43.942	112.076	1.00	45.67
8463	O	HOH	W	623	58.655	42.429	66.051	1.00	39.64
8466	O	HOH	W	624	38.479	21.736	77.473	1.00	56.01
8469	O	HOH	W	625	39.434	13.757	115.073	1.00	53.57
8472	O	HOH	W	626	32.466	23.353	78.452	1.00	55.44
8475	O	HOH	W	627	89.067	26.528	54.655	1.00	36.58